West Chester University

Undergraduate Catalog 1990-1991

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Communications Directory

MAILING ADDRESS:	West Chester University West Chester, PA 19383
TELEPHONES:	Dial 436 plus number in parentheses. For offices not shown here, call the University Information Center: (215) 436-1000.
Academic Advising	Director of Academic Advising, Lawrence Center (3505)
Academic Development Program	Director of Academic Development Program, Lawrence Center (3505)
Admissions/Undergraduate Catalogs	Director of Admissions, 100 West Rosedale Avenue (3411)
Affirmative Action	Director of Affirmative Action, Lawrence Center (2838)
Billing/Payments	Office of the Bursar, Elsie O. Bull Center (2552)
Bookstore	Student Services Inc., Sykes Union Building (2242)
Careers/Placement	Director of Career Development Center, Lawrence Center (2501)
Continuing Education	Dean, University College, Elsie O. Bull Center (3550) Director, Evening Studies Center, Elsie O. Bull Center (3550) Director, Community Education, Elsie O. Bull Center (3550)
Counseling	Counseling Center, Lawrence Center (2301)
Financial Aid/ Work Study	Director of Financial Aid, Elsie O. Bull Center (2627)
Graduate Studies/ Catalogs	Dean of Graduate Studies and Sponsored Research, Old Library (2943)
Housing	Student Development Office, Sykes Union Building (3307)
Student Activities and University Events	Student Programming Dept./Student Activities Council, Sykes Union Building (2983) or Sykes Information Desk (2984)
Student Services Inc.	Sykes Union Building (2955)
Police	Public Safety Department, Peoples Maintenance Building (3311)
Public Relations	Director of University Relations, Philips Memorial (3383)
Scheduling/Registration	University Registrar, Elsie O. Bull Center (3541)
Summer Sessions	Director of Summer Sessions, Elsie O. Bull Center (2230)
Teacher Certification	Teacher Certification Office, Anderson Hall (2426)

Accreditation

West Chester University is accredited by The Middle States Association of Colleges and Secondary Schools, The National Council for Accreditation of Teacher Education, The National Athletic Training Association, The National Association of Schools of Music, The Council on Social Work Education (baccalaureate level), The National League for Nursing, The Society for Public Health Education, The American Chemical Society, The Commission on Accreditation in Clinical Chemistry, and the Joint Review Committee for Respiratory Therapy Education. West Chester University has been given program approval by the Department of Education of the Commonwealth of Pennsylvania for the certification of teachers.

Non-Discrimination/Affirmative Action Policy

West Chester University is committed to providing leadership in extending equal opportunities to all individuals. Accordingly, the University will continue to make every effort to provide these rights to all persons regardless of race, color, religious creed, lifestyle, handicap, ancestry, national origin, union membership, age or sex. This policy applies to all members of the University community including students, faculty, staff and administrators. It also applies to all applicants for admission or employment and all participants in University-sponsored activities.

This policy is in compliance with federal and state laws, including Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Educational Amendment of 1972, Section 504 of the Rehabilitation Act of 1973 and Executive Order of the Governor of Pennsylvania.

Any individual having suggestions, problems, complaints, or grievances with regard to equal opportunity or affirmative action is encouraged to contact the director of affirmative action, Lawrence Center, second floor (215) 436-2433.

Sexual Harassment Policy

West Chester University is committed to equality of opportunity and freedom from discrimination for all its students and employees. Based on this commitment and the recognition that sexual harassment is a form of discrimination which is of a growing concern to the higher education community, the University provides the following policy:

> Harassment on the basis of sex is a violation of Title VII of the U.S. Civil Rights Act, Title IX of the Educational Amendments of 1972, and of the Pennsylvania Human Relations Act. Because West Chester University is committed to establishing an environment free from discrimination and harassment, sexual harassment will not be tolerated in any form. Upon official filing of a complaint, immediate investigation will be made culminating in appropriate corrective action where warranted which may include termination of the relationship with the University.
>
> Sexual harassment is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature occurring when:
>
> 1. submission of such conduct is made either explicitly or implicitly a term or condition of an individual's employment, or of a student's academic status or treatment;
> 2. submission to or rejection of such conduct by an individual is used as the basis for academic or employment decisions affecting such an individual, or
> 3. such conduct creates an intimidating, hostile, or offensive living, working or academic environment to a reasonable person.

A complete copy of the University's Sexual Harassment Policy document, inclusive of the investigatory procedures, may be obtained from the Affirmative Action Office.

Individuals who believe themselves to be the victims of sexual harassment, or who have questions about the University's policy on this matter should contact the director of affirmative action, Lawrence Center, second floor (215) 436-2433.

The provisions of this catalog are not to be regarded as an irrevocable contract between the student and the University. West Chester University reserves the right to change any provisions or requirements at any time.

Contents

Communications Directory ... ii
Academic Calendar ... 2
Policy for Storm Closing ... 2
Introducing West Chester ... 3
Campus and Facilities ... 4
Admission to West Chester ... 6
Fees and Expenses ... 8
Financial Aid ... 10
Student Affairs ... 16
Academic Affairs ... 25
Degree Requirements ... 30
Academic Policies and Procedures ... 34
Structure of the University ... 41
Undergraduate Programs at West Chester ... 42
Programs of Study and Course Offerings ... 43
College of Arts and Sciences ... 44
Department of Anthropology and Sociology ... 44
Department of Art ... 46
Department of Biology ... 49
Department of Chemistry ... 51
Department of English ... 54
Department of Foreign Languages ... 57
Department of Geology and Astronomy ... 62
Department of History ... 64
Interdisciplinary Programs ... 66
American Studies Program ... 66
Comparative Literature Studies Program ... 67
Ethnic Studies Program ... 68
Latin-American Studies Program ... 69
Linguistics Program ... 69
Peace and Conflict Studies Program ... 69
Russian Studies Program ... 70
Women's Studies Program ... 70
Liberal Studies Program ... 71
Department of Mathematics and Computer Science ... 72
Department of Philosophy ... 75
Department of Physics and Pre-Engineering Program ... 77
Pre-Medical Program ... 78
Department of Psychology ... 79
Department of Speech Communication and Theatre ... 81
School of Business and Public Affairs ... 84
Department of Accounting ... 84
Department of Criminal Justice ... 84
Department of Economics ... 86
Department of Geography and Planning ... 88
Department of Management ... 89
Department of Marketing ... 90
Department of Political Science ... 91
Political Science/ Public Administration Programs ... 93
Department of Social Work ... 94
School of Education ... 96
Department of Childhood Studies and Reading ... 96
Department of Counselor, Secondary, and Professional Education ... 98
Environmental Education Program ... 99
Department of Instructional Media ... 100
Social Studies Program ... 101
Department of Special Education ... 102
Teaching Certification Programs ... 103
School of Health Sciences ... 105
Department of Communicative Disorders ... 105
Department of Health ... 106
Department of Nursing ... 109
Department of Physical Education ... 111
School of Music ... 116
Department of Music Education ... 117
Department of Music History ... 118
Department of Instrumental Music ... 119
Department of Keyboard Music ... 120
Department of Music Theory and Composition ... 120
Department of Vocal and Choral Music ... 121
Special Programs ... 123
Military Science Program (Army ROTC) ... 123
Air Force ROTC Program ... 124
Commonwealth of Pennsylvania ... 125
Administration ... 126
Faculty ... 127
Index ... 139
Campus Map ... 142

ACADEMIC CALENDAR 1990-91

FALL SEMESTER 1990

September 3	Labor Day—Dormitories Open
September 4	Faculty Meetings — per departmental announcements
September 5	Classes begin — 8 a.m.
September 20	Rosh Hashanah*
September 29	Yom Kippur*
November 21	Thanksgiving Recess Begins — 5 p.m. (no evening classes)
November 26	Thanksgiving Recess Ends — 8 a.m.
December 15-21	Examination Period
December 15	Commencement
December 21	Fall Semester Ends

SPRING SEMESTER 1991

January 21	Martin Luther King Day — (no classes) Late Registration
January 22	Classes Begin — 8 a.m.
March 22	Spring Break Begins — 5 p.m.
April 1	Spring Break Ends — 8 a.m.
May 10	Reading Day — no classes
May 11-17	Examination Period
May 18	Commencement
May 18	Spring Semester Ends

SUMMER SESSIONS 1991

June 3-June 21	Pre Session
June 24-August 2	Regular Session
August 5-August 23	Post Session

*Although the University will be in session, no examinations are to be administered on these major Jewish Holy Days.

University Policy for Storm Closings

When storm conditions affect the operation of the University, announcements are made over local radio and TV stations via a system of code numbers keyed to affected schools. Prefixes indicate whether the school will be closed or open later than usual. West Chester's numbers and applicable prefixes are

853 — University number; this number with no prefix indicates classes will be cancelled for the day.
2853 — Evening classes will be cancelled.
5853 — School will open one hour late.
6853 — School will open two hours late.

On Tuesday or Thursday, either a two-hour delay or class cancellation will be called. Two-hour delays on these days will mean that 8 a.m. classes are cancelled and the class normally starting at 9:30 a.m. will start at 10 a.m. and continue to 11 a.m. On Monday, Wednesday, or Friday, a one-hour delay means that the 8 a.m. class is cancelled. A two-hour delay means that both the 8 a.m. and 9 a.m. classes are cancelled.

Introducing West Chester

Quality education at a reasonable price . . . this is the goal of West Chester University, the second largest of the 14 institutions of higher learning which compose the State System of Higher Education of the Commonwealth of Pennsylvania. A comprehensive and multi-purpose university, West Chester serves individuals of all ages with a variety of programs to fill their educational needs.

West Chester offers degrees in the arts and sciences, teacher training and certification, preparation for advanced study in fields such as medicine and law, education for specific professions, and continuing education. See page 42 for a complete listing of undergraduate degree programs.

Total enrollment at West Chester includes over 9,000 undergraduate students and about 1,850 graduate students. While most undergraduates are recent high school graduates preparing for career objectives, many others are older individuals, including veterans and homemakers, who either never before had the opportunity for a college education or whose schooling was interrupted.

Most students are residents of Pennsylvania, but students from other states and foreign countries are welcome. West Chester's student body represents a cross section of many ethnic, racial, and religious groups and includes students from all economic levels.

Like the world around it, West Chester University is constantly changing and growing. The school continues to broaden and modify the nature and number of its programs to reflect the needs of its students in their endeavor to prepare themselves for success and fulfillment in life.

Philosophy of the University

West Chester University is dedicated to providing all students with an opportunity to develop the capacity to understand the intellectual, social, cultural, and physical environments in which they live. The University strives to promote critical thinking, clear and effective expression, creativity, and an atmosphere in which each student can develop a distinctive identity and, at the same time, a sense of community and humanity. In its teaching, research, and community service activities, the University responds to the changing needs of society, and seeks to prepare students to serve effectively in their chosen professions and to lead lives that will be creative, stimulating, and satisfying.

The Frederick Douglass Society

Drawing its content from our campus history of social consciousness and its structure from a variety of models in public life, the Frederick Douglass Society of West Chester University is the organization of black professional and non-professional staff at West Chester. Named in 1983 for one of the 19th century's most distinguished advocates of human freedom, the organization is oriented toward self-help and improvement by offering a collective voice in the affairs of the University. Its programs also aim to stimulate other groups on campus to enrich our climate. The society annually raises scholarship funds, in order to increase the economic options available to the student body generally and to blacks and other ethnic groups as well. It also seeks, by the example of Douglass, to promote an intellectual standard that is not only grounded in excellence but profoundly rooted in the public mission of higher education.

Institute for Women

The Institute for Women is an independent body designed to represent the interests of women on the campus. It serves as the parent organization for the Women's Center, the Women's Studies Program, and the Title IX and Sex Discrimination Board. The institute is headed by a director and a Board of Directors.

The institute sponsors a number of activities to enhance the self-esteem and career success of women at the University: the Woman-in-Residence Program, Grace Cochran Research on Women Award, Visiting Professor Program, Graduate Grant and Endowed Book Funds. The institute prepares periodic reports on the status of women at the University and has also secured Charlotte W. Newcombe Scholarship Grants for mature/second career women. The Institute for Women is located in 211 Main Hall. For more information call (215) 436-2464, 2122.

History of the University

Although its founding year is 1871, the University in fact has deeper roots tracing from West Chester Academy, a private, state-aided school which existed from 1812 to 1869. The academy enjoyed strong support from the highly intellectual Chester County Cabinet of the Natural Sciences of the pre-Civil War decades. It was recognized as one of Pennsylvania's leading preparatory schools, and its experience in teacher-training laid the groundwork for the normal school years that were to follow.

As the state began to take increasing responsibility for public education, the academy was transformed into West Chester State Normal School, still privately owned but state-certified. The normal school admitted its first class of 160 students on September 25, 1871. In 1913, West Chester became the first of the normal schools to be owned outright by the Commonwealth.

West Chester became West Chester State Teachers College in 1927 when Pennsylvania initiated a four-year program of teacher education. In 1960, as the Commonwealth paved the way for liberal arts programs in its college system, West Chester was renamed West Chester State College, and two years later introduced the liberal arts program which turned the one-time academy into a comprehensive college.

In recognition of the historic merit of the campus, in 1981 the West Chester State College Quadrangle Historic District was placed on the National Register of Historic Places. The buildings included in this historic district are Philips Memorial Hall, Ruby Jones Hall, Recitation Hall, and the Old Library. Except for Philips, these buildings are all constructed of native Chester County serpentine stone.

West Chester State passed another major milestone with passage of the State System of Higher Education bill.

West Chester and the other 12 state colleges became universities in the State System of Higher Education on July 1, 1983. Along with its new name — West Chester University of Pennsylvania of the State System of Higher Education — the institution acquired a new system of governance and the opportunity to expand its degree programs.

Location of the University

West Chester University is in West Chester, a town which has been the seat of government in Chester County since 1786. With a population of about 20,000, the borough is small enough to have the pleasant aspects of a tree-shaded American town, large enough to contain essential services and the substance of a vigorous community, and old enough to give the student first-hand touch with America's early history. Students can walk to West Chester's many churches. The town has excellent stores and a fine hospital.

West Chester was settled in the early 18th century, principally by members of the Society of Friends. In the heart of town is its courthouse, a classical revival building designed in the 1840s by Thomas U. Walter, one of the architects for the Capitol in Washington, D.C.

West Chester today is part of the rapidly growing suburban complex surrounding Philadelphia and offers interesting opportunities for the study of local, county, and regional government in a period of change and growth.

Philadelphia is 25 miles to the east and Wilmington 17 miles to the south, putting the libraries, museums, and other cultural and historical resources of both cities in easy reach. Valley Forge, the Brandywine Battlefield, Longwood Gardens, and other historical attractions are near West Chester. New York and Washington are easily accessible by car or train.

How to Reach West Chester

The Borough of West Chester is easily accessible from all directions both by car and public transportation. Route 3, the West Chester Pike, leads directly into town from center-city Philadelphia. From the Pennsylvania Turnpike, motorists traveling west should take Route 202 south from the Valley Forge Interchange while those traveling east can arrive via Route 100 south from the Downingtown Interchange. From the south, Route 202 from Wilmington and Routes 100 and 52 from U.S. Route 1 all lead to West Chester.

Public transportation is available from Philadelphia and other nearby communities.

Information on public transportation and carpooling is available in Sykes Union Building.

Campus and Facilities

Description of the Campus

West Chester University's campus is a unique mixture of 19th century, collegiate Gothic, and contemporary architectural styles which complement each other to create a stately yet beautiful atmosphere.

North Campus, an expansion of the original campus, occupies 97 acres at the southern boundaries of the Borough of West Chester. The North Campus contains the Quad area, which is surrounded by the University's oldest buildings—Philips Memorial, Recitation Hall, Anderson Hall, Ruby Jones Hall and Old Library—three of which are constructed of the green-hued serpentine stone which has given West Chester a unique character for many decades. The University is also known for the magnificent old trees which grace the campus.

An extensive building program from 1966 to 1976 produced several major facilities and utilities which equip the University well for the needs of modern education. The Elsie O. Bull Center, the Francis Harvey Green Library, Mitchell Hall (Fine Arts), Main Hall (Humanities), Earl F. Sykes Union Building, and the Schmucker Science Center were major additions, along with six high-rise residence halls which span the western side of North Campus.

South Campus, which came into full use in 1970, is a 291-acre expanse of the gently rolling countryside of Chester County. Located on South New Street 3/4 of a mile south of the original campus, South Campus includes the massive Health and Physical Education Center, which has won national acclaim for the quality and extent of its teaching, performance, and research facilities. John A. Farrell Stadium, playing and practice fields, and tennis courts surround the center. Also at South Campus is the 100-acre Robert B. Gordon Natural Area which includes woodlands, fields, and a streamside habitat. This area has been conserved as a resource for the natural sciences.

Information Services

Information Services provides computing resources for a wide variety of users—both academic and administrative. Many of the University's administrative functions, such as registration, grade reporting, and billing depend heavily on the campus-wide transaction processing system which provides centralized access to University data from workstations located throughout the campus.

More importantly, computing is a vital instructional and research tool. Information Services offers students and faculty a wide range of computing resources from mainframe to microcomputers, printers, plotters, graphics workstations, digitizers, and optical scanners. Many of these facilities are available at various campus locations, but the Academic Computing Center on the third floor, F. H. Green Library, serves as a focal point of instructional computing activity. A valid WCU I.D. card is required to use the Academic Computing Center. (For further information, contact the Academic Computing Center at 215-436-3349.)

Computing facilities throughout the campus are joined by the Mainframe Network and the Information Services Network. The Mainframe Network provides medium-speed access to computers from workstations on campus. The Mainframe Network provides electronic

mail capabilities for all campus workstations, as well as access to the University's main library catalogs.

The Information Services Network (ISN) provides high-speed access to software applications (programming languages, spreadsheets, word processors, faculty developed programs, etc.) and electronic communication capabilities to workstations. Student laboratory facilities are available in the Academic Computing Center and in each of the eight residence halls. Access to the ISN is also available to any workstation in a dormitory room or faculty/staff offices, and through dial-in access.

Students interested in acquiring a working knowledge of several commonly used software packages are encouraged to enroll in the introductory computing course CSC101 offered by the Department of Mathematics and Computer Science.

Major hardware facilities include an IBM 4381 mainframe, numerous Banyan/Vines file servers, and IBM, MacIntosh, Apple, Zenith, and NeXT microcomputers. Letter-quality laser printers are also available for student use.

Information Services is located in 107 Elsie O. Bull Center, 436-2828.

Darlington Herbarium

The Darlington Herbarium, housed in Schmucker Science Center, is one of the most highly regarded historical collections of dried plant specimens in the East. Among the 20,000 specimens are plants collected by such famous explorers and botanists as Captain John Fremont, Thomas Nuttall, Sir William Hooker, C.S. Rafinesque, and George Englemann. More than 200 collectors from America's formative years of 1820 to 1850 are represented. The herbarium was the work of Dr. William Darlington (1782-1863), a member of the West Chester Cabinet of Science. Dr. Darlington was eminent in West Chester as a physician, educator, banker, businessman, historian, and botanist. His plants, however, were his first love. A state park has been established in northern California to preserve a rare species of insectivorous plant named in his honor—*Darlingtonia.*

Robert B. Gordon Natural Area for Environmental Studies

The University has conserved 100 acres of natural woodland, field and streamside habitat located on south campus and uses it for several kinds of outdoor studies in the natural sciences. Dedicated in 1973, the area was named for Robert B. Gordon, faculty member and chairperson of the University's Department of Science from 1938 to 1963.

Francis Harvey Green Library

The Francis Harvey Green Library provides an excellent environment for study and research. The six-story facility has the capacity to house 500,000 books. It is furnished with a variety of seating areas including individual study carrels, faculty and graduate lounges, computer lab facilities, group studies, seminar rooms, and general reading areas.

The library has an increasingly important role in both teaching and research with its growing collection of nearly 465,000 volumes and subscriptions to 2,800 journals. Augmenting this general collection with more than 350,000 titles is the micromedia collection including books, periodicals, newspapers and doctoral dissertations along with the facilities to read this material. The total resources of over 750,000 volumes compare favorably with other major public and private research libraries in West Chester's geographic area.

Other noteworthy collections can be found in the library complex. An extensive holding of courses of study and textbooks, and a variety of audiovisual materials and equipment are held in the instructional materials center. Also available are separate collections for children's literature, government documents, and maps. The library is a selective depository for government documents and maps.

The Special Collections Room holds the Chester County Collection of scientific and historical books; the Normal Collection, publications by West Chester University faculty and alumni; the Ehinger Collection (a collection of historical books on physical education); the *Biographies of the Signers of the Declaration of Independence* by John Sanderson; and the Shakespeare Folios. The Philips Collection of Autographed books is housed in a specially designed room in the Philips Memorial Building.

West Chester students may take advantage of the library's many services such as reference, computerized on-line literature searching CD ROM databases, interlibrary loan, and photoduplication. The library's integrated automated system provides students and faculty access to the library's holdings via computer terminals. The on-line catalog may be searched at terminals located throughout the library and at remote terminals elsewhere on and off campus. To add to the cultural enrichment of the college community, the library schedules informative displays and art exhibits throughout the year.

Music Library

The Music Library is part of the University library. Located in Swope Hall, it houses an extensive collection of music, one of the largest of its kind in the Commonwealth of Pennsylvania. Its rapidly growing holdings include over 26,000 scores (historical editions, collected works, opera, keyboard, vocal and instrumental music) and more than 22,500 recordings (classical, folk, non-western, popular). Listening facilities for 40 persons are available within the library.

Art Collections

The University's permanent art collection is made up primarily of gifts from interested art patrons, senior class purchases, and gifts from the alumni. The Student Services Inc. permanent art collection is on display at the Francis Harvey Green Library, Philips Memorial, and the new SSI Art Gallery in the Sykes Student Union. The SSI collection consists of a number of important works such as the water color, "Andress Place," by Andrew Wyeth.

Historical Properties

Among a number of historical properties which came to the University through the Chester County Cabinet of Natural Sciences, a scientific society of the early 19th century, are the Anthony Wayne Letters, which include letters to Wayne from George Washington, Benedict Arnold, and others. The University also owns a grandfather's clock which belonged to Benjamin Franklin and Anthony Wayne's telescope, both of which came from the Chester County Cabinet. The Chester County Cabinet and the West

Chester Academy merged to form the nucleus of the present University.

Center for Governmental and Community Affairs

Established in 1979, with offices in Ruby Jones Hall, the center is a campus service to local governmental and community organizations for research, faculty services, workshop sponsorship, intern placements, and resource materials. Center activities focus on facilitating community/campus interchange in furthering the use of University resources to solve governmental and community problems.

Speech and Hearing Clinic

The Speech and Hearing Clinic, located on the second floor of Wayne Hall, is operated by the Department of Communicative Disorders as a teaching-training facility for its undergraduate and graduate students. The clinic provides diagnostic and therapeutic services for persons with speech, language and hearing problems. These services are provided free of charge to West Chester University students, faculty and staff, and to students enrolled at Cheyney University. A fee is charged others who wish to use the services of the clinic.

Admission to West Chester

West Chester University evaluates its applicants on the basis of scholarship, character, and potential for achievement in the programs to which they apply. The University operates on a rolling admissions policy whereby applications are reviewed as received and applicants are notified as quickly as possible of their status. Qualified students of any age from all racial, religious, ethnic, and socio-economic backgrounds are welcome at West Chester. Studies may be pursued on a full or part-time basis.

General Requirements for Admission of Freshmen

1. Graduation, with satisfactory scholarship, from an approved secondary school or approval by the Credentials Evaluation Division of the Pennsylvania Department of Education.
2. Either a satisfactory score on the Scholastic Aptitude Test (SAT) of the College Entrance Examination Board (CEEB) or satisfactory scores on the tests given in the American College Testing Program (ACT). Applicants who graduated from high school *more* than five years ago do not need to submit test scores.

How and When to Apply for Admission

For application materials please write or call the Office of Admissions, West Chester University, West Chester, Pennsylvania 19383 (215-436-3411).

Freshman applicants for fall semester are urged to begin the application process at the beginning of their senior year in high school. All applications should be submitted no later than June 1. However, if enrollment limits are met before this date, admissions will be closed.

Applicants for spring semester should submit an application by December 1.

Candidates will receive notification from the director of admissions as soon as possible after decisions are reached.

Freshman applicants who are denied admission on the basis of academics will not be permitted to enroll through University College but will be encouraged to consider a junior or community college as an alternative.

Policy on Early Admission

In exceptional circumstances, students with superior academic qualifications and unusually mature personal development are admitted as freshmen upon completing their junior year of secondary school. Students who, in the opinion of their guidance counselor, warrant consideration for early admission may obtain more information from the director of admissions. The closing date for applications is June 1.

Arranging for Tests

Information about CEEB or ACT may be obtained from high school guidance counselors. It is the student's responsibility to ensure that all required test scores are forwarded to the Office of Admissions.

Transfer Students

Individuals who have been enrolled in any postsecondary institution after graduation from high school and/or have attended West Chester University on a non-degree basis must apply as transfer students. Applicants whose secondary school credentials would not warrant admissions consideration as freshmen must complete the equivalent of one full academic year prior to attempting a transfer. A minimum cumulative grade point average of 2.00 is required for transfer consideration. However, some academic departments have established prerequisite course work and higher grade point average requirements for admission. Specific information may be obtained from the Office of Admissions.

All application procedures must be completed by August 1 for a fall semester and December 1 for the spring session. If enrollment limits are met before these dates, admissions will be closed.

Application Procedures for Students Transferring from an Accredited Institution

1. File an application, available from the Office of Admissions.
2. See that the director of admissions receives:
   a. An official transcript from all institutions attended. If preliminary (incomplete) transcripts are submitted, the student must see that final transcripts are filed later.
   b. Mid-term grades, if the student is enrolled elsewhere in the fall semester and is applying to West Chester for the following spring semester.
3. If a student has completed less than 30 semester hours of credit, he or

she must supply SAT or ACT scores and a high school transcript.

If a student is accepted, admission is contingent upon successful completion of current course work with at least a C average as documented by transcripts of all work attempted or completed.

Transfer students should note the section titled "Maintenance of Academic Standards" in Academic Policies and Procedures.

Transcripts will be evaluated in accordance with the policies of the department to which the student seeks admission. After the student has been admitted, he or she should work out an acceptable program of study in close consultation with an advisor in the major department.

Transfer applicants who are denied admission on the basis of academics will not be permitted to enroll through University College without the expressed approval of the Office of Admissions. Such approval may be rendered in the event of extenuating circumstances and only under certain agreed-upon conditions in accordance with University policy.

University Policies for Students Transferring from a Non-Accredited Institution

Applicants from collegiate institutions (including community colleges and junior colleges) which are *not accredited* by one of the six regional associations in the United States will be considered for admission if the applicant's cumulative index is 2.00 (C) or better.

The evaluation of courses listed on transcripts from an institution not accredited by one of the six regional associations will be made by the student's major department in consultation with the faculty dean and transfer credit analyst. All evaluations are subject to review by the provost and academic vice president.

Foreign Students

Students from foreign countries may be considered for degree admission if, in addition to satisfying the general requirements, they also demonstrate proficiency in English. Standardized test scores from one of the following must be submitted with the application: Test of English as a Foreign Language (TOEFL), Scholastic Aptitude Test (SAT), or American College Test (ACT). Non-native English speakers are encourage to submit the TOEFL; a minimum score of 550 is required.

Foreign students are admitted only for the fall semester each year and applications must be submitted to the Office of Admissions by June 1. Accepted students must be able to verify their ability to fully meet all educational and living expenses before an I-20 form can be issued and admission to West Chester finalized. Because of the amount of time it takes for a student visa to be secured, foreign applicants are encouraged to complete the admissions process well in advance of the June 1 deadline.

Physical Examination Requirements

Applicants are not asked to submit a report of medical history until they have been accepted for admission. Upon acceptance, they will receive a form for the necessary health examination, which should be completed by a physician and returned to the University Health Center as soon as possible. Students who are handicapped or medically disabled may be requested to seek additional advising or counseling for career and course selections.

Physically Disabled Students

West Chester University will make every effort to assure disabled students accessibility to all classes required for their program of study and will endeavor to remove all obstacles to a fulfilling, comprehensive university experience. The Office of Admissions should be advised of any disabilities to assure suitable accommodations. For additional information, please contact the Office of Special Services.

Second Baccalaureate Degree

An individual may pursue a second baccalaureate degree at West Chester University after earning the first baccalaureate degree either at West Chester or another institution. Such an individual must apply for admission through the Office of Admissions as a transfer student.

Admission of College Graduates Seeking Certification

College graduates who wish to obtain teaching certification should consult with the Certification Office in the School of Education.

Readmission of Former Students

Students who have withdrawn from West Chester for two or more consecutive semesters must request an application for readmission from the Office of Admissions. After an absence of only one semester, students wishing to return should contact the Office of the Registrar and their department advisor. Those who have attended any institutions of higher learning since leaving West Chester must request those institutions to forward transcripts of their records to the Office of Admissions, West Chester University, West Chester, Pennsylvania 19383.

Students intending to enroll in student teaching in the first semester of readmission must file an application for student teaching with the individual departments at least four months before their expected readmission. See also "Student Teaching" in the chapter on academic affairs.

All readmission applications are to be filed by August 1 for the fall semester or December 1 for the spring semester.

Office of Admissions Staff

Marsha Haug—Director of Admissions
Fran Cubberley—Associate Director
Eileen Merlin—Assistant Director
Joseph Bradley—Assistant Director
Kathy Hein—Assistant Director
Jule Thomas—Assistant Director
Linda Hoffman—Admissions Counselor

Fees and Expenses

Notes

All fees and expenses are subject to change without notice.

Unless otherwise specified, fees are paid by cash, check, MasterCard, VISA, or money order, payable to West Chester University. All fees are paid at the Office of the Bursar unless otherwise directed.

Please refer to the Undergraduate Summer Catalog for information on summer fees and expenses.

Undergraduate Tuition for Legal Residents of Pennsylvania

Full-time students (between 12-18 credits) $1089.00 per semester
Part-time students (11 credits or less), or per credit for each credit over 18 $91.00 per credit

Undergraduate Tuition for Out-of-State Students

Full-time students (between 12-18 credits) $2017.00 per semester
Part-time students (11 credits or less), or per credit for each credit over 18 $168.00 per credit

Community Center Fee

The community center fee is a mandatory charge for the use of Sykes Student Union Building.

1 – 6 credits $ 2.50 per semester
7 – 9 credits $ 5.00 per semester
10 credits or more $10.00 per semester

Health Center Fee

The health center fee is a mandatory charge for the use of the University Health Center.

Full-time students only (12 credits or more) $25.00 per semester
Part-time students (11 credits or less) $10.00 per semester

Student Services, Inc. (SSI) Fee

The SSI fee is a mandatory charge to fund student activities, services, clubs, and sports.

Full-time (12 credits or more) $50.00 per semester
Part-time (11 credits or less) $15.00 per semester

Educational Services Fee

The educational services fee is a mandatory charge for all students. Funds collected are used only for instructional supplies, equipment and library books.

Full-time (12 credits or more) $25.00 per semester
Part-time (11 credits or less) $10.00 per semester

Housing Fee

The housing fee entitles the student to occupancy of a standard double room in a residence hall with one roommate.

Per student $992.00 per semester

Students losing their roommates who do not have another roommate assigned to them will be assigned a roommate, consolidated, or charged a private room fee of $32.00 per week for every week that they occupy the room alone. These options are usually only available during the spring semester.

Meal Fee

The meal fee entitles the student to utilize any of the food service facilities available on campus. The standard meal plan is composed of two portions; a flexible guaranteed 14-meal plan, and $100.00 of "flex dollars." These "flex dollars" can substitute for an all-you-can-eat meal, but it may also buy items at a take-out store in the Lawrence Dining Hall, a "convenience" store in Lawrence Center, or the Sykes Deli

All resident students MUST be on the standard meal plan. Off-campus students may opt for the standard plan or may purchase a plan with "flex dollars" only. This plan must have a minimum of $100.00 when opened and may be added to in $25.00 increments. "Flex dollar" only plans may also be used in all food service facilities.

Standard Meal Plan— $605.00 per semester (14 meals plus $100.00 flex dollars)

Payment of Fees

Each semester, students have three opportunities to schedule for classes and pay their bills.

(1) Students may schedule during the main scheduling period, which is held during the prior semester. A bill will be mailed to these students six to eight weeks before the semester begins. The bill must be paid in full by the due date. Students who are receiving approved financial aid awards that fully cover or exceed the amount of their bills do not have to pay, but they must submit to the Office of the Bursar a full Financial Aid Waiver Form, which will be enclosed with their bills. Students who cannot pay their bills in full by the due date may apply for deferred payment (see "Deferred Payment Policy" below).

(2) Students who do not schedule prior to the mail payment deadlines may schedule and pay in person prior to the start of the semester. In this instance, payment must be made at the time of scheduling; no bill will be sent in the mail.

(3) Students who do not take advantage of either of these scheduling opportunities, or who fail to pay their bills as outlined above, must attend late registration. Students at late registration will be expected to pay their bills at the time that they schedule.

Failure to meet the payment deadlines as set forth above could result in cancellation of the student's schedule. In order to have the schedule reinstated, the student would have to pay his or her bill in full as well as a $25.00 late registration fee.

Students who owe money to the University will receive monthly statements until the amount due is paid in full. Until this balance is fully paid, the student will not be able to schedule for future semesters, will not receive transcripts, and will not be cleared for graduation. The University may also, at its discretion, invoke any other penalty appropriate for a particular case where money is owed to the University.

Deferred Payment Policy

The University extends deferred payment privileges to all students who are in good financial standing and have not defaulted on a previous payment

plan. The fee charged for this service is $50.00 annually. For more information about the plan offered, please contact the Office of the Bursar at (215) 436-2552.

Uncollectible Check Policy

A fee of $25.00 is charged for any check returned to the University for insufficient funds, stopped payment, or closed account. The University may, at its discretion, charge this fee for any check returned to it for any other reason.

The check will be returned to the student upon its replacement through cash, cashier's check, MasterCard, VISA or money order. Students who have two or more checks returned against their accounts will no longer be able to make payment by personal check; all future payments must be made by cash, certified check, MasterCard or VISA, or money order.

Refund Policy

All requests for refunds for dropped or cancelled courses, or for withdrawals, must be made in writing or in person to the Office of the Registrar. Refunds are not automatic; it is the student's responsibility to initiate a refund request.

Individual fees will be refunded as follows:

Tuition and SSI Fees—in full prior to the first day of the semester; after the first day of the semester, as follows:

1st or 2nd weeks of class	80% refund
3rd week of class	70% refund
4th week of class	60% refund
5th week of class	50% refund

There is no refund after the fifth week of class.

Housing Fee—in full prior to the first day of the semester; after the first day of the semester, prorated refunds are made on an individual basis through the Office of Residence Life.

Meals Fee—in full prior to the first day of the semester; after the first day of the semester, prorated refunds are made on an individual basis through the Office of Residence Life for resident students, and through the Office of the Bursar for commuter students.

Community Center, Health Center, and Educational Services Fees—in full prior to the first day of the semester or for cancelled courses; non-refundable after the first day of the semester for dropped courses or withdrawals.

Appeals to the refund policy are made to the University registrar. Further appeals may be made to the Appeals Committee.

Other Fees

Application Fee. $15.00 is charged to all prospective students for the processing of their applications to the University. The fee is non-refundable and is not credited to the student's account.

Acceptance Fee. $100.00 is paid by all newly accepted and readmitted students as proof of intention to enroll at the University. It is credited against the student's tuition and is non-refundable if the student decides not to attend.

Housing Deposit. $100.00 is charged to all new and returning students who wish to live in the residence halls. It is credited against the student's housing fee and is non-refundable if the student decides not to live on campus.

Late Registration Fee. $25.00 is charged to all students who schedule and pay at late registration and to all students who pay their bills after the deadline set for those bills. This fee is non-refundable.

Credit by Examination Fee. A charge is made to all students who register for a Credit by Examination through the Office of the Registrar. Each examination scheduled costs $25.00.

Portfolio Assessment Fee. Equal to 50% of the per credit hour rate, this fee is charged to have a faculty member assess a student's prior knowledge in a particular course.

Course Audit Fee. Students who audit courses pay the same fees as students taking the courses for a letter grade.

Damage Fee. Students are charged for damage or loss of University property. This fee varies, depending on the extent of the damage.

Identification Card Fee. The University charges a $2.00 fee to issue an identification card to each full- or part-time student. If this card is lost, stolen, or damaged, the student will be charged $5.00 for a replacement card. This fee is payable at the Student Services Inc. Office.

Parking Fees. The University charges $8.00 per vehicle per year to each student purchasing a decal to use university parking lots. Registration forms are available at the Public Safety Department. A violation of University parking regulations is charged at $5.00 per issued ticket.

Instrument Rental Fee. Each student renting a musical instrument for a semester is charged $6.00 per instrument. Every student using a pipe organ for practice for one period each weekday is charged $36.00 per semester.

Lost Key Replacement. Students who lose the key to their dormitory room are charged a non-refundable fee of $25 to replace the lock.

Transcript Fee. A $2.00 charge covers the cost of providing the student with an official University transcript. Request forms are available and fee payments are made in the Office of the Registrar.

Graduation Fee. The University charges $30.00 to all students enrolled in a degree program who will have fulfilled their degree requirements by the end of the semester. This fee is paid after the student completes a Graduation Application Form in the Office of the Registrar and is approved for graduation.

Placement Credentials Fee. This $10.00 charge covers the cost of registration, development, and updating a student credentials file in the Career Development Center. The fee entitles the student to five mailings of credentials, as well as a personal copy.

Students in the B.S. degree programs in health and physical education must purchase uniforms at the University Bookstore. All students must be in proper uniform for activity classes.

Financial Aid

The Financial aid program at West Chester University provides financial assistance and counseling to students who can benefit from further education, but who cannot obtain it without such assistance. Financial aid consists of gift aid in the form of scholarships or grants, and self-help aid in the form of employment or loans. The main responsibility for meeting educational expenses rests with students and their families. Financial aid is a supplement to family contribution and is to be used for educational expenses.

Eligibility for financial aid, with the exception of some private scholarships and the Parent Loan Program, is based on demonstrated financial need. Family income, assets, and family size influence a student's demonstrated financial need.

All documents, correspondence, and conversations among the applicants, their families, and the Financial Aid Office are confidential and entitled to the protection ordinarily arising from a counseling relationship.

In order to receive financial aid, the student must:

1. Be accepted for admission as a degree student enrolling at West Chester University, or, in the case of a student already attending the University, be enrolled and making satisfactory academic progress as a degree student. See the section entitled "Satisfactory Academic Progress Policy For Financial Aid" for a more detailed explanation of this requirement.
2. Submit a Pennsylvania State Grant & Federal Student Aid application to the Pennsylvania Higher Education Assistance Agency in Harrisburg, PA before March 15 for priority consideration. *All students, regardless of state residency status, must complete this form in order to be considered for financial aid at West Chester University.* This application will be used to determine demonstrated financial need for the student. All students are encouraged to complete this application.
3. Submit, in the case of a transfer student, a Financial Aid Transcript from all previously attended post-secondary educational institutions. This transcript may be obtained through the Financial Aid Office. Submit this transcript even if no aid was received at those institutions.
4. Apply for the state grant program in his or her state of legal residence.
5. Submit any other requested documentation concerning financial and family circumstances that may be requested by the Financial Aid Office, or any agency that administers financial assistance programs. Financial aid applicants may be required to submit copies of their/their parents' IRS forms or various other income documents.

Submission of the above does *not* automatically entitle a student to receive financial aid. The Financial Aid Office follows the regulations established by the federal government in awarding aid. Aid applicants are ranked according to unmet need (based on budget, federal and state grants, and expected family contribution), and available funds are offered to the neediest students first. *Students must apply for financial aid each academic year.*

Unless otherwise specified, requests for scholarships, grants, loans, and employment opportunities described in this catalog should be made to the Financial Aid Office. Application forms for state and federal grants may be obtained from the Financial Aid Office at West Chester University and from the offices of most high school guidance counselors. Questions concerning financial aid may be directed to the Financial Aid Office, 138 Elsie O. Bull Center, West Chester University, West Chester, PA 19383. The telephone number is (215) 436-2627. Office hours are from 8:30 a.m. to 4 p.m., Monday through Friday.

Satisfactory Academic Progress Policy For Financial Aid

Each student will be reviewed for satisfactory academic progress annually after the spring semester. A student must meet the following requirements in order to continue to receive Title IV financial aid:

1. Successfully complete the minimum number of credits during the prior academic year as shown below:

Credits Attempted Per Semester	Minimum Successfully Completed Per Semester
12 or more	12
9 to 11.5	9
6 to 8.5	6
Fewer than 6	All

2. Have a cumulative grade point average (GPA) of at least 2.00 by the end of the student's second academic year of attendance.

A student who is not making satisfactory academic progress at the time of the annual review will be reviewed again after the summer and fall semesters.

Credits earned during the summer following an academic year will be used to make up a credit deficit during the review for financial aid satisfactory academic progress. The Financial Aid Office reviews the "official permission of the University to enroll or continue enrollment as a degree student" requirement at the beginning of each semester.

In other words, if the student moves from "degree" to "non-degree" between the fall and spring semesters, the student will not be maintaining satisfactory academic progress and spring financial aid will be rescinded. This particular item is NOT appealable.

Courses taken at other institutions will be used in the determination of satisfactory progress only if they are accepted for transfer to WCU and count towards the student's degree. The student is responsible for submitting transcripts and evaluations to the Financial Aid Office.

In addition to the above requirements, students will be expected to complete their four-year undergraduate degree programs within five years. Therefore, full-time undergraduates may receive up to, but not more than, 10 semesters of aid. Students enrolled on a part-time basis may receive the prorated equivalent of 10 full-time semesters of aid. For additional information about this, contact the Financial Aid Office.

Failure to maintain satisfactory academic progress according to these standards will result in the loss of

Federal Title IV financial aid for at least one semester, or until such time as the student is again maintaining satisfactory academic progress.

DEFINITIONS:

CREDITS ATTEMPTED: Credits for which a grade of A^+, A, A^-, B^+, B, B^-, C^+, C, C^-, D^+, D, D^-, F, P, W, Y, WF, WP, I, or NG has been received.

SUCCESSFULLY COMPLETED CREDITS: Credits for which a grade of A^+, A, A^-, B^+, B, B^-, C^+, C, C^-, D^+, D, D^-, or P has been received. Grades of NG, AU, CRE, W, WP, WF and I do not count as successfully completed credits.

FEDERAL TITLE IV FINANCIAL AID: Pell Grant, Stafford Student Loan (SSL), Parent Loan (PLUS), College Work Study, Perkins Loan Program, Supplemental Grant (SEOG).

APPEALS TO THE SATISFACTORY ACADEMIC PROGRESS REQUIREMENTS:

Appeals to the satisfactory academic progress requirements must be made in writing, requesting and fully explaining the reasons for the appeal. The Appeals Committee may request a personal interview with the student. The decision of the Appeals Committee will be based on the merits of the appeal and will be final. Appeals, when granted, will be for ONE SEMESTER ONLY. Students who are granted appeals will be reviewed for the maintenance of satisfactory academic progress at the end of the "appeal" semester, with progress determined by the credits attempted and earned during the appeal semester. In most circumstances, only ONE appeal will be granted during the course of the student's academic career at WCU.

The Federal Title IV satisfactory academic progress policy also applies to state grant (not PHEAA) programs that include the maintenance of progress as an eligibility requirement.

PHEAA STATE GRANT SATISFACTORY ACADEMIC PROGRESS IS DIFFERENT FROM FEDERAL TITLE IV FINANCIAL AID SATISFACTORY ACADEMIC PROGRESS. IT IS DEFINED AS SUCCESSFULLY COMPLETING A MINIMUM OF 24 CREDITS FOR EACH TWO SEMESTERS OF PHEAA STATE GRANT AID RECEIVED AND IS ESTABLISHED BY PHEAA.

Academic Level Requirements for GSL/PLUS/SLS

In addition to maintaining satisfactory academic progress, a loan recipient is required to advance to the next academic level for each level of loan borrowed in the GSL, PLUS, or SLS programs. Academic levels for undergraduates are defined as:

Undergraduate Credits Earned	Level
0 – 31.5	1
32 – 63.5	2
64 – 95.5	3
96 or more	4

Withdrawal/Enrollment Change and Aid

Students who officially withdraw or change their enrollment status may be entitled to a refund of certain fees, according to West Chester University's policy. (See section entitled "Fees and Expenses.") If that student has been awarded financial aid for the semester in which the withdrawal or enrollment change occurs, a portion of the refund will be *returned to financial aid program funds.*

Financial aid refunds due to withdrawals or enrollment changes are processed in accordance with federal, state, and awarding agency guidelines and regulations. A student considering withdrawal or an enrollment status change should consult with the Financial Aid Office to determine the impact of that action on current and future financial aid.

Student Consumer Rights and Responsibilities

You have the right to ask a school —

1. The names of its accrediting organizations.
2. About its programs; its instructional, laboratory, and other physical facilities; and its faculty.
3. What the cost of attending is and what its policies are on refunds to students who drop out.
4. What financial assistance is available, including information on all federal, state, local, private, and institutional financial aid programs.
5. What the procedures and deadlines are for submitting applications for each available financial aid program.
6. What criteria it uses to select financial aid recipients.
7. How it determines your financial need. This process includes how costs for tuition and fees, room and board, travel, books and supplies, personal and miscellaneous expenses, etc. are considered in your budget. It also includes what resources (such as parental contribution, other financial aid, your assets, etc.) are considered in the calculation of your need.
8. If you have a loan, what the interest rate is, the total amount that must be repaid, the length of time you have to repay the loan, when payments are to begin, and any cancellation and deferment provisions that apply.
9. If you are offered a work study job, what kind of job it is, what hours you must work, what your duties will be, what the rate of pay will be, and how and when you will be paid.
10. To reconsider your aid package, if you believe a mistake has been made.
11. How the school determines whether you are making satisfactory academic progress, and what happens if you are not.
12. What special facilities and services are available to the disabled.

You have the responsibility to —

1. Review and consider all information about a school's program before you enroll.
2. Pay special attention to your application for student financial aid, complete it accurately, and submit it on time to the right place. Errors can delay your receiving financial aid.
3. Provide all additional documentation, verification, corrections, and/or new information requested by either the Financial Aid Office or the agency to which you submitted your application.
4. Read and understand all forms that you are asked to sign and keep copies of them.
5. Accept responsibility for the promissory note and all other agreements that you sign.
6. If you have a loan, notify the lender of changes in your name, address, or enrollment status.

7. Perform in a satisfactory manner the work that is agreed upon in accepting a college work study job.
8. Know and comply with the deadlines for application for aid.
9. Know and comply with your school's refund procedures.

THE FOLLOWING IS A BRIEF DESCRIPTION OF THE FINANCIAL AID PROGRAMS AVAILABLE AT WEST CHESTER UNIVERSITY.

College Work Study Program

College work study is an employment program which allows students to work part time on campus. Application is made through the Pennsylvania State Grant & Federal Student Aid application. The priority deadline is March 15.

Perkins Loan Program

The Perkins Loan Program is administered by the Financial Aid Office for students who demonstrate financial need. The cumulative limit for borrowing as an undergraduate student is $9,000 ($4,500 during the first two academic years). The cumulative limit for borrowing as a graduate student and undergraduate student is $18,000. The interest rate is 5% and begins to accrue when repayment commences, nine months after the student terminates his or her education. There are deferment privileges for students who enter the armed services, Peace Corps, or VISTA after graduation. There are cancellation privileges for special education teachers and teachers in certain school districts. Application is made through the Pennsylvania State Grant & Federal Student Aid application. Priority deadline is March 15.

Stafford Loan Program

This loan program, formerly the Guaranteed Student Loan Program, operates with the cooperation of private lenders (banks, credit unions, etc.). Students must demonstrate need for a loan. Undergraduate students may borrow up to $2,625 per academic year for the first two academic years, and up to $4,000 per academic year after that. The cumulative limit for undergraduates is $17,250. The academic level maximum amounts are *not guaranteed*. The loan amount is influenced by the receipt of other aid. The interest rate, for first time borrowers, is 8% for the first four years of repayment and 10% for the remaining years. It begins to accrue when repayment commences, six months after the student terminates his or her education or drops below half-time status. There are deferment privileges for students who enter the Peace Corps, ACTION programs, or the Commissioned Corps of the Public Health Service. Applications are secured at the lending institution. Students should allow 10 weeks for processing and apply by May 31. The Stafford Loan application and the Pennsylvania State Grant and Federal Student Aid Application must be filed.

Parent Loan for Undergraduate Students (PLUS)

The PLUS program operates through private lenders. Parents may borrow up to $4,000 for each dependent student attending a postsecondary educational institution for each academic level. The cumulative limit is $20,000 per dependent student. The academic level maximum amount is *not guaranteed*. The loan amount is influenced by the receipt of other aid. The maximum interest rate is 12% and repayment commences 60 days after disbursement of the loan funds. Applications are secured at lending institutions.

Supplemental Loans for Students (SLS)

The SLS program operates through private lenders. Independent undergraduate students may borrow up to $4,000 per academic year, with a cumulative limit of $20,000. These loan limits DO NOT include amounts borrowed under the Stafford Loan or PLUS programs. The maximum interest rate is 12 percent, the repayment period begins on the day the loan is disbursed, and repayment may be extended over a 10-year period. This loan requires a credit-worthy co-applicant. Applications are available at lending institutions or directly from PHEAA.

Short Term Emergency Loan

Students in need of funds to cover unusual or emergency education expenses may contact the Financial Aid Office concerning the Short Term Emergency Loan Program. The maximum loan is $200.

Pell Grant

This is the federal grant program. All students are encouraged to apply for a Pell Grant. Students receive notification of eligibility in the form of a Student Aid Report which *must be submitted* to the Financial Aid Office. The maximum award is $2,300 per year. Application can be made through the Pennsylvania State Grant & Federal Student Aid application. Deadline is May 1 of the current academic year.

Supplemental Educational Opportunity Grant (SEOG)

The SEOG program is federally funded and administered by the Financial Aid Office. A student must demonstrate financial need and be an undergraduate. The maximum grant is $4,000 per academic year, although *limited funding does not usually allow the awarding of this maximum amount.* Application is made through Pennsylvania State Grant & Federal Student Aid application. Deadline is March 15.

State Grants

PENNSYLVANIA HIGHER EDUCATION ASSISTANCE AGENCY (PHEAA) GRANT. The Commonwealth of Pennsylvania, through PHEAA, makes state grants available to students who demonstrate financial need, are full-time undergraduates, and are Pennsylvania residents. PHEAA requires that students successfully complete at least 24 credits each academic year in which a PHEAA Grant is received. Application is made through the Pennsylvania State Grant & Federal Student Aid application. Deadline is May 1.

The Commonwealth of Pennsylvania has entered into reciprocal agreements with the following adjacent states: Delaware, West Virginia, Ohio and Maryland. Residents of these states who wish to attend West Chester University are permitted to use state grants from their home states for educational expenses at West Chester. Some other states not adjacent to Pennsylvania may permit their residents to use state grants for attendance at West Chester University. Students should contact the agency for higher education within their state for more information.

Scholarships and Awards

WEST CHESTER UNIVERSITY ALUMNI ASSOCIATION SCHOLAR-

SHIP FUND. A scholarship fund was established by the Alumni Association of West Chester University in 1974 to benefit the students of West Chester University. The criteria for selection are scholarship, leadership, character, and need. Scholarships may be awarded to sophomores, juniors, and seniors. Applications are available from the Financial Aid Office or the Office of Development and Alumni Relations. The awards are generally made on Alumni Day each year and are applied to the students' course fees for the next academic year. Scholarship amounts vary.

GERALDINE DALEY ANDERSON '34 SCHOLARSHIP. This fund was established to honor Mrs. Geraldine Daly Anderson by a gift from her husband, Dr. Robert S. Anderson, M.D. The awards from the fund are restricted to physical education majors who are graduates of high schools in Lackawana, Luzerne, and Wyoming counties in Pennsylvania. Students must also have need and demonstrate academic achievement. Preference will be given to female students. The value of the award varies but will be no less than $300. Applications may be obtained from the Financial Aid Office.

JUSTO B. BRAVO SCHOLARSHIP IN CHEMISTRY. This award is available to a full-time student majoring in chemistry. Applications are made to the Department of Chemistry.

LAURY SAMUEL BROKENSHIRE SCHOLARSHIP. This scholarship is presented annually as a memorial to Laury Brokenshire, '59, by his parents, Mr. and Mrs. James R. Brokenshire, of Reading. It is awarded to an outstanding junior class music student selected by the School of Music faculty.

CAVALCADE OF BANDS SCHOLARSHIP. This award is sponsored jointly by the Cavalcade of Bands Association and the School of Music. The recipient(s) must be admitted in good standing to the music program at West Chester University and selected by the director of the winning band(s) in each category of the American and Yankee Conferences. The awards are determined annually. Normally one student from each of the four winning bands will be selected to receive a $1,000 tuitional scholarship.

ROBERT L. CARL MEMORIAL KEYBOARD SCHOLARSHIP. Two scholarships are awarded to freshmen keyboard majors, in honor of the late Robert L. Carl, former chairperson of the Department of Keyboard Music, who taught piano at the University from 1946 until 1971. Applications are made to the dean of the School of Music.

PAUL E. CARSON BAND SCHOLARSHIP. This award has been made possible by the generosity of Paul E. Carson, former chairman of the Instrumental Department and a member of the University faculty for 28 years. Scholarships are awarded to incoming freshmen majoring in band instruments.

VINCENT D. CELENTANO MEMORIAL SCHOLARSHIP. This scholarship is awarded as a memorial to Dr. Vincent D. Celentano, musician, scientist, and Explorer Committee member. Eligible freshmen in the School of Music must be affiliated with Exploring or Senior Branch of Scouting.

CLASS OF 1920 SCHOLARSHIP. This fund was established by the Class of 1920 through a gift on the occasion of the class's 65th reunion. The award is made to a student who has completed one year of study at the University or to an outstanding freshman. Need and leadership qualities are essential. The amount will be no less than $500. Application forms are available through the Financial Aid Office.

CLASS OF 1937 SCHOLARSHIP. This scholarship fund was established by the Class of 1937 as a golden anniversary gift to West Chester University on the Fiftieth Reunion of the class. The scholarships are awarded to entering freshmen based on scholarship, leadership, character and financial need. The awards are generally made on Alumni Day each year and are applied to tuition fees for the academic year.

Applications are available from the Office of Development and Alumni Relations or the Financial Aid Office. Selection of recipients will be made by the Scholarship Committee of the Alumni Board of Directors.

CLASS OF 1957 SCHOLARSHIP. This fund was established by the Class of 1957 to assist entering freshmen with demonstrated exemplary achievement in mathematics or science and English. Application forms are available through the Financial Aid Office.

CLASS OF 1970 SCHOLARSHIP. This fund was made available through the Class of 1970 on the occasion of the class's 15th reunion in 1985. The award is to be made to a student who has demonstrated academic achievement and good university citizenship. The amount is no less than $100. Application forms are available through the Financial Aid Office.

GRACE COCHRAN RESEARCH ON WOMEN AWARD. An annual $100 award in each division, graduate and undergraduate, for the best research on women. The award, sponsored by the Institute for Women, is given on Research on Women Day held in April of each year. Dr. Cochran, an eminent teacher and scholar, graduated from the West Chester State Normal School in 1906.

TIMOTHY DAVIDSON SCHOLARSHIP. This scholarship is awarded to a first-year student based on the recommendation of the Admissions Office.

PAUL DOUGLAS TEACHER SCHOLARSHIP PROGRAM. This program offers awards of up to $5,000 per year to students who are pursuing a course of study leading to certification as a teacher at the elementary or secondary level and who are willing to enter into a signed agreement with PHEAA that obligates them to teach two years of elementary or secondary school for each year they receive a scholarship. To be eligible, students must be or have been in the top 10 percent of their high school graduating class. Applications are available at high school guidance offices or the Financial Aid Office.

FREDERICK DOUGLASS MINORITY STUDENT SCHOLARSHIP. Scholarships are available to minority students who are enrolled full time. Applicants must demonstrate their ability to make a positive contribution to the University and/or community through active involvement. Applications and guidelines are available during the spring semester in the Financial Aid Office.

DR. ROBERT E. DRAYER MEMORIAL AWARD. An annual award for the senior who graduates with the most distinguished record in history, in memory of Dr. Robert E. Drayer, assistant professor of history, who died in 1968. The Department of History selects the recipient.

FACULTY AWARD. A certificate presented annually to a graduating senior in the Department of Nursing who, in the opinion of the department faculty,

demonstrates "outstanding ability and exceptional commitment to professional nursing."

FACULTY SCHOLARSHIP FUND. Annual awards of $200 each are made in May to undergraduate students on the basis of academic ability and financial need. Applications are made to the Faculty Scholarship Fund.

WEST CHESTER UNIVERSITY FOUNDATION GRANT. The West Chester University Foundation has available modest funds for grants to needy students. Any student who is about to complete, or has completed, his/her freshman year may apply. In evaluating applications, the foundation will give special attention to those who are active in all facets of university life. Applications for the fall semester should be submitted by May 1, and for the spring semester by December 1 of each year.

H. RAYMOND SR. AND MAY GRAYSON FRIDAY MEMORIAL SCHOLARSHIP. This scholarship, awarded to a freshman voice major, is given by Dr. Raymond Friday in memory of his parents.

MIRIAM GOTTLIEB PIANO SCHOLARSHIP. This award has been made possible through the generosity of Mrs. Miriam Gottlieb, who was a member of the University's Keyboard Department faculty from 1946 until her retirement in 1975.

ANN JOHNS SCHOLARSHIP. This scholarship is awarded by the Faculty Dames of West Chester University to undergraduate women who are at least 25 years old and enrolled in degree programs. Contact the Financial Aid Office for additional information and application forms.

THE JOHN GUTSCHER MEMORIAL SCHOLARSHIP IN MUSIC EDUCATION. This award, presented for the first time in 1988, is based on music student teaching excellence, academic excellence, and need. The award was established by the family of John Gutscher, a former School of Music faculty member. The student or students are selected by the music student teaching supervisors with the approval of the Music Education Department.

ARTHUR E. JONES MEMORIAL SCHOLARSHIP. Talent in the choral conducting area is the consideration for this annual award to a music student in remembrance of Dr. Arthur E. Jones, former chair of choral music. To be eligible, a student must be a junior who has completed a course in choral conducting. A 2.0 GPA and a 2.5 music GPA are required. The Department of Vocal and Choral Music selects the recipient.

WALKER HAMILTON, JR. MEMORIAL AWARD. As a memorial to Walker Hamilton, Jr., an associate professor of English who died in 1968, the Department of English annually makes an award to an academically superior English major. The recipient must have completed three years at West Chester.

MARTIN LUTHER KING JR. SCHOLARSHIP. Contact the Black Student Union for additional information and application forms.

FRITZ K. KRUEGER MEMORIAL VOICE SCHOLARSHIP. Two scholarships for freshman students who are vocalists in honor of the late Fritz K. Krueger, who taught in the Department of Vocal and Choral Music from 1961 until 1971. Applications are made to the dean of the School of Music.

MARTHA FORD McILVAIN SCHOLARSHIP. These scholarships are awarded through the Alumni Association to students with demonstrated meritorious academic achievement. Application forms are available through the Financial Aid Office.

LEWIS H. MARSHALL AWARD. An annual award to a senior in the social and behavioral sciences whose leadership, professional promise, and academic achievement are outstanding. It is made available by the Chester County Association of Township Officials, and the awardee is selected by a committee of faculty selected from appropriate disciplines.

CHARLES MAYO SCHOLARSHIP. This award of approximately $250 is made annually in memory of Dr. Charles Mayo, a political scientist, who was president of West Chester University from 1974 until 1982. It is made by vote of the political science faculty to an outstanding junior or senior in the discipline. Details are available through the Political Science Office.

S. POWELL MIDDLETON MEMORIAL SCHOLARSHIP. This is an annual award to a freshman music student for talent and achievement on an orchestral instrument. The award honors the former conductor of the University Symphony Orchestra who died in 1970.

MINORITY ACADEMICALLY TALENTED STUDENT SCHOLARSHIPS. Merit-based scholarships available to incoming freshmen minority students. Awards are based on the successful completion of an academic high school program, satisfactory SAT/ACT scores, high school rank, and academic record. The Pennsylvania State Grant and Federal Student Aid application *must also be completed.* For additional information and application forms, contact either the Office of Admissions or the Financial Aid Office.

LLOYD C. MITCHELL PIANO SCHOLARSHIP. This scholarship was established in honor of Dr. Lloyd C. Mitchell upon his retirement in 1971 after 35 years service at the University, including 20 years as chair of the Music Department and dean of the School of Music. It is awarded annually to a freshman music student selected by a piano faculty jury. Applications are made to the dean of the School of Music.

CLIFTON E. MORGAN MEMORIAL AWARD. Presented annually to a West Chester student as a memorial to a member of the Department of History, who died in 1974.

MICHAEL MOROCHOKO MEMORIAL PIANO AWARD. The Department of Keyboard Music presents a scholarship annually to an outstanding junior music student majoring in piano. This award is a memorial to Michael Morochoko, father of a former student.

SOPHOMORE MUSIC SCHOLARSHIP. Three scholarships are given annually to music education sophomores. University citizenship and musical performance as well as a 2.0 GPA and a 2.5 music GPA are required. Applications are made to the dean of the School of Music.

NATIONAL GUARD OFFICERS SCHOLARSHIP PROGRAM. Upon certification by the appropriate National Guard official as being eligible, students may register for a given semester by paying 25 percent of tuition costs plus all other fees. The University will bill the National Guard directly for the remaining 75 percent of the tuition charges.

NEW JERSEY ALUMNI SCHOLARSHIP. The New Jersey Chapter of the

West Chester University Alumni Association sponsors two $500 scholarship awards annually. These awards are available to students who are New Jersey residents, funded by the contributions of New Jersey alumni. Applications may be obtained through the Financial Aid Office and the Alumni Relations Office.

CHARLOTTE W. NEWCOMBE FOUNDATION SCHOLARSHIP. This scholarship is awarded to undergraduate women who are at least 25 years old and enrolled in their junior or senior years. Selection is based on scholastic ability, financial need, and special life circumstances. Contact the Financial Aid Office for additional information and application forms.

THEODORA PANDEL MEMORIAL PIANO SCHOLARSHIP. This award is presented through the generosity of Praxiteles Pandel, associate professor of piano.

HILLARY H. PARRY MEMORIAL SCHOLARSHIP. An annual award to a junior music student, granted for scholarship, citizenship, and achievement in vocal study. The scholarship is in remembrance of a former teacher of voice. A 2.0 GPA and a 2.5 music GPA are required.

PHI MU ALPHA, SINFONIA POWELL MIDDLETON AWARD. An annual award in memory of S. Powell Middleton, presented by the Rho Sigma chapter of Phi Mu Alpha Sinfonia men's music fraternity. It is based on outstanding musicianship, scholarship, and character. Applications are made to the dean of the School of Music.

DEPARTMENT OF PHYSICAL EDUCATION SCHOLARSHIP. Three scholarships are awarded to any sophomore, junior or senior student in health and physical education. Applications are made to the department chairperson, Physical Education Department.

PRESSER SCHOLARSHIP. This is a grant of $1,000, consisting of $500 from the Theodore Presser Foundation and $500 from the School of Music, to be applied toward tuition in the student's senior year. It is awarded by the president of the University to the student majoring in music who achieved the highest cumulative GPA at the end of the junior year, having completed no less than 95 credits at West Chester University. This student in his/her senior year will be known as the Prèsser Scholar, denoting a reward for excellence with the hope that the award will help the student not only financially but also in his/her future career.

WILLIAM PYLE PHILIPS SCHOLARSHIPS. Awarded annually to juniors and seniors who are natives of Chester County on the basis of demonstrated scholastic ability. Funds are available for approximately 20 scholarships to cover the basic fee. Application forms may be secured in the Financial Aid Office.

PRESIDENTIAL SCHOLARSHIP. These merit-based scholarships are awarded to incoming freshmen students based on the successful completion of an academic high school program, SAT/ACT scores, high school rank, and academic record. For additional information and application forms, contact the Office of Admissions.

N. RUTH REED HEALTH DEPARTMENT SCHOLARSHIP. Sponsored by the West Chester University Health Department. Applicant must be a student at West Chester University (an undergraduate health major, sophomore academic status or better) possess a cumulative grade point average of at least 3.00, and demonstrate high moral character, positive personality traits, and evidence of genuine interest and aptitude in working in the health field. For information contact the Health Department.

SCHOLARS IN EDUCATION AWARD PROGRAM. This program offers awards to Pennsylvania residents enrolled in teacher education programs in mathematics or science. The program is based entirely on academic achievement and teaching commitment. Applications are available at high school guidance offices or the Financial Aid Office.

DAVID M. SENSENIG MEMORIAL SCHOLARSHIP. $50 savings bonds are given annually to two juniors with outstanding ability in mathematics. Dr. Sensenig was chair of the Department of Mathematics from 1895 to 1908. The scholarship fund is administered by the Alumni Association of West Chester University.

DR. AHMAD H. SHAMSEDDINE MEMORIAL AWARD. An annual award is given to an outstanding student in the field of business and economics, in memory of Dr. Ahmad H. Shamseddine, associate professor of economics, who died in 1971.

ANNE M. SCHAUB MEMORIAL SCHOLARSHIP. The Anne M. Schaub Memorial Scholarship is awarded annually to a second semester sophomore women's health and physical education major student. The amount of scholarship is $300.

SCHOOL OF MUSIC FRESHMAN STRING SCHOLARSHIP. Two scholarships are awarded to incoming freshman students who are string majors.

JANE ELIZABETH SHEPPARD VOCAL/CHORAL SCHOLARSHIP. This award was established in honor of Jane E. Sheppard upon her retirement in May of 1987 after 34 years of service in the Vocal/Choral Department of the School of Music. Recipient of this monetary award will be selected on the basis of outstanding participation in Vocal/Choral activities (which must include four semesters of Chamber Choir), scholarship and personal qualifications.

SICO FOUNDATION SCHOLARSHIPS. Scholarships, in limited number, provided by the SICO Company are provided for four years of study at West Chester University at a rate of $1000 per year ($4,000 total value). High school students qualified for college admission or high school graduates who have not attended college on a full-time basis may compete for a SICO Foundation Scholarship when their legal residences are located in the state of Delaware in Cecil County, Maryland, or in the following Pennsylvania counties: Adams, Berks, Chester, Cumberland, Dauphin, Delaware, Lancaster, Lebanon, and York. A student attending the Shippensburg, Boyertown, Spring-Ford, or Williams Valley High Schools in Pennsylvania, or the Del-Mar High School in Delaware whose residence is outside the aforementioned area is considered in the SICO Company service area and may apply for a scholarship. No distinction is made on the basis of sex, race, or religious belief. Information may be secured from high school guidance offices in the above-referenced areas.

SIGMA ALPHA IOTA LOIS ALT AWARD. The Epsilon Epsilon Chapter of this academic music fraternity for women offers yearly an award honoring Lois W. Alt, a member of the Vocal/Choral Department faculty and co-

founder/advisor of the campus chapter. The award is based upon University leadership, high musical standards, and need.

ROB SIMON MEMORIAL AWARD. This award has been established by Joseph and Janice Simon, alumni of the School of Music, and the late Dr. Irving H. Cohen, a member of the School of Music faculty for many years, in memory of Rob Simon, who was a double bass major at the University. The competition is open to double bass majors during their junior or senior year.

GREG SMITH MEMORIAL SCHOLARSHIP. An annual scholarship of $100 presented by the baseball club in memory of a former baseball captain and president of the baseball club.

W. W. SMITH CHARITABLE TRUST. The W.W. Smith Charitable Trust was established in 1977 under the will of William Wikoff Smith, an important supporter of educational opportunity in the Delaware Valley. Established through his will, the W. W. Smith Charitable Trust has carried on Smith's work. Funds from this program are used to support students enrolled in the Academic Development Program at West Chester University. For additional information, please contact the Director of the Academic Development Program or the Financial Aid Office.

JANE B. SWAN SCHOLARSHIP. Sponsored by the Women's Institute of West Chester University, a $100 scholarship is awarded annually to a non-traditional woman student who is completing an interrupted education. Application forms are available at the Women's Center and the Financial Aid Office.

DR. CHARLES S. SWOPE SCHOLARSHIP FOUNDATION. A Memorial Scholarship Trust Foundation established by Charles E. Swope and Richard M. Swope in memory of Dr. and Mrs. Charles S. Swope. Dr. Swope served as president of West Chester University for a quarter of a century. Applicants must be full-time students enrolled in their junior year. Scholarships are $1,000 each; up to 15 may be awarded annually. Applications must be filed on or before April 1. Selection is made during May with scholarships commencing in September.

WILKINSON MUSIC THEORY SCHOLARSHIP. This scholarship is awarded to a sophomore music student during the spring semester on the basis of talent and achievement in the areas of music theory, ear-training, and sight singing. The scholarship fund has been established by Dr. Harry Wilkinson, professor in the Music Theory/Composition Department.

WRITING AWARD. A certificate presented annually to one junior and one senior nursing student who demonstrate "outstanding writing ability." The faculty of the department selects the recipient.

RUTH WALDMAN ZOLL '28 SCHOLARSHIP. This fund was established through the generosity of the late Mrs. Zoll. These scholarships are especially for students who have significant need. One scholarship each year is reserved for a student entering the University from a high school in Berks County where Mrs. Zoll resided. Award amounts vary and application forms may be obtained from the Financial Aid Office.

Student Affairs

The administration of West Chester University is committed to providing a comprehensive educational experience for students. To accomplish this mission the Division of Student Affairs provides a variety of services and programs to augment the classroom experience. The goal of the division is to assist students in their emotional, social, and psychological growth and to contribute to developing a campus community where knowledge, acceptance, and social concerns are basic values.

Offices within the Student Affairs Division include: Alcohol and Drug Education, Career Development, Children's Center, Counseling and Psychological Services, Greek Life and Student Organizations, Health Services, Off-Campus and Commuter Life, Orientation and Parent Relations, Recreational Services, Residence Life and Housing, Student Standards, Sykes Union, and the Women's Center.

The administration believes that students should share the responsibility for governing their community and should have a voice in shaping the objectives of the University. Through a democratically constructed student government and committee structure, the administration, faculty, and student body seek to work together in behalf of the general welfare of the University.

Classification of Students

Students who attend West Chester University are classified for administrative purposes into two categories.

(1) RESIDENT STUDENTS
These students live in residence halls operated by the University. Resident students are required to take meals in the dining hall.

(2) OFF-CAMPUS STUDENTS
This classification covers students who travel or commute to and from their legal residences as well as students who live away from the homes of their parents or legal guardians in a dwelling which is not supervised or approved by the University.

Services

Residence Life and Housing

The Office of Residence Life and Housing is reponsible for creating and maintaining an environment in the residence halls which encourages academic, social, and emotional growth. Each building is staffed with trained personnel who are available 24 hours a day to provide services, assistance, and a variety of information. All resident students are given and encouraged to read the residence hall handbook, A Guide to Residence Hall Living, which contains valuable information on all services, policies, and responsibilities pertaining to the

residence halls. The Residence Life and Housing Office is located in 206 Sykes Union, 436-3307.

On-Campus Housing

The residence halls on the campus provide accommodations for approximately 3,100 resident students. These students cannot be guaranteed housing for their full four years.

Room Assignments. The Office of Residence Life and Housing makes the room assignments for all students living in the residence halls. These assignments are made without discrimination. Only individuals of the same sex will be assigned as roommates. Student rooms have basic furnishings for comfortable living and the students may make them more homelike with their own accessory additions. During orientation, students are informed about the services and equipment furnished by the University and those necessities which they must supply for themselves. Lounge and recreation areas, television, and a variety of other facilities and conveniences provide a pleasant setting for student life.

Transfer Students. Transfer students are admitted both as resident students and as commuting students. Those transfer students who desire on-campus housing should indicate this at the time they apply for admission to the University.

Married Students. The University has no housing facilities for married students. Prior to registration, they will need to secure their own accommodations in the community.

Overnight Guests. If accommodations are available, a resident student may have an overnight guest. Prior approval and registration must be secured from the resident director.

Policy for Withdrawals. Resident students must vacate their residence hall within 24 hours of completing the withdrawal form in the Office of the Registrar.

Dining Accommodations

Plan 1
14 Variable Program: This program entitles students to any 14 of the 21 meals served Monday through Sunday and includes a flexible fund of $100.00. This convenient program is required for residence students and is available to off-campus and commuter students.

Plan 2
Flexible Fund Program: This program is designed for commuter students. Students can place a minimum of $100.00 into a flexible fund account which can be accessed by a WCU ID Card. The program can be used in the Food Court, Take Out, Convenience Store, Bagel Cart or Ram's Head Deli in Sykes. With this program, there is no need to carry cash to purchase meals. The flexible fund can be increased in $25.00 increments any time.

Students in University housing have their meal plan cost included in their University billing. Off-campus and commuter students can sign up for a meal plan by applying at the Bursar's Office in the Elsie O. Bull Center.

Off-Campus and Commuter Life

The Office of Off-Campus and Commuter Life is committed to meeting the diverse needs of off-campus and commuting students. The responsibilities of the office include the Off-Campus Housing Service, advising the Off-Campus Student Association, and serving as a community resource agent for the University and local government in all areas related to off-campus and commuting students.

Additional services provided to off-campus students by OCL include landlord/tenant legal aid information and development of long-range plans and research on the profile and needs of the off-campus students.

The Office of Off-Campus and Commuter Life is located in 206 Sykes Union, 436-3305.

Off-Campus Housing

Students who choose to live in the community must secure their own living accommodations. The Office of Off-Campus and Commuter Life will assist students in finding housing by providing a variety of materials such as an up-to-date listing of available housing and an apartment complex guide. As available student rental units in the West Chester area are at a premium, it is recommended that students interested in this type of living situation begin their housing search as far in advance as possible.

Alcohol and Drug Education

The Alcohol and Drug Education Office is staffed by the director of drug and alcohol education. The office offers a variety of services to the University community: a library of relevant information available for loan, programming on a variety of related topics, consultation for students and professionals, support groups and workshops, and referrals to treatment facilities when appropriate. The office is located in 240 Sykes Union, 436-3305.

The Drug and Alcohol Resource Center is an extension of the Alcohol and Drug Education Office. Located in Killinger Hall Basement, the Resource Center is staffed by trained graduate and undergraduate peer educators. A variety of resources are available for loan, and students may work in the Resource Center to gather information for papers, speeches, projects, etc. The peer educators offer a wide range of programs to the University community, both social and educational. For more information contact the Resource Center at 436-3276.

Bookstore

The Student Services, Inc. Bookstore, located on the ground floor of Sykes Union Building, stocks required textbooks and supply items connected with academic programs of the University. In addition to required course materials, the bookstore offers a wide variety of merchandise including computers, clothing, health and beauty items, cards, gifts, groceries, reference and leisure reading materials.

Qualifying students may apply for an SSI Bookstore Charge in room 211, Sykes Union Building. Payment can also be made via Visa, Mastercard, MAC or by a personal check accompanied by a valid ID.

Store hours:

Mon.-Thurs.-Fri.	8:15 a.m.-4:15 p.m.
Tues.-Weds.	8:15 a.m.-6:00 p.m.

Extended hours are provided at the beginning of each semester.

Bus Transportation on Campus

The University provides bus service from University Avenue and Church Street to South Campus (and return), Monday through Friday, during the academic year. There is no bus service on weekends except Sunday from 6:30 p.m. to 11:00 p.m. and on exam Satur-

days. Bus schedules are available in Sykes Union and at residence hall desks.

Career Planning and Placement Services

The professional staff of the Career Development Center work directly with students throughout their years at the University assisting in defining career goals, relating academic preparation to these goals, and, eventually, helping in the search for fulfilling occupations. These services are available throughout the entire calendar year in Lawrence Center, second floor. A career information library is kept current for browsing and research. Graduate school catalogs and other reference material are maintained for students considering graduate school. Computerized job posting and use of an interactive computer career guidance program are also available. Other activities of the Career Development Center include seminars and on-campus interviews with potential employers.

A credential service is provided for graduating seniors on an additional cost basis.

The Career Development Center is located in 126 Lawrence Center, 436-2501.

Children's Center

The Women's Center supervises the operation of the Children's Center for the children of West Chester University students and employees.

Children participate in educational and developmental programs while their parents are in class or at work. The center is licensed by the Commonwealth of Pennsylvania, and all required registration materials must be completed prior to a child's enrollment in the center. The center offers reduced rates to students and multiple-child discounts. The center is located in the ground floor of McCarthy Hall. For more information, including opportunities for student workers and volunteers, contact the Children's Center at 436-2388 or the Women's Center at 436-2122.

Counseling and Psychological Services Department

The Counseling Center, a part of the Counseling and Psychological Services Department, is located on the second floor of Lawrence Center. The Counseling Center provides counseling services without charge to all undergraduate and graduate students at West Chester. The faculty in the Counseling Center includes licensed psychologists who are experienced in working with college students. Students may discuss their concerns, feelings, hopes, and interests freely and in strict confidence.

COUNSELING SERVICES:

Since the Counseling Center provides services for a wide range of concerns, each student's experience will be tailored to his or her request. Students may want to clarify their vocational or educational choices, improve their interpersonal skills, or resolve personal conflicts. Their choice of approach could include one or more of the following counseling center services.

1. *Individual vocational counseling* consists of a one-to-one counseling experience which focuses upon the student's choice of major and vocation. Vocational choice is most solid when it is the outgrowth of understanding one's self. Such understanding requires time and thought and involves the student's identifying his or her own style, values, interests, and abilities. Psychological testing as well as discussion often enhances self understanding.
2. *Individual counseling for personal problem solving* consists of a one-to-one counseling experience where the focus is upon resolving personal conflicts, conflicts with others, and upon improving the student's expertise at making personally meaningful choices. It may also help some people avoid decisions which restrict their personal growth and undermine their well-being.
3. *Group counseling* consists of a small group of peers with one or more counselors. Such groups meet usually once weekly to provide group members with constructive learning about themselves. Groups often have a specific focus. Past groups have focused upon:
   - Elimination of self-defeating behavior
   - Assertiveness training
   - Anxiety management
   - Test anxiety reduction
   - Weight reduction
   - Career exploration
   - Procrastination — how to avoid it
4. *Testing* — Information from psychological tests can be useful in increasing self understanding and can often assist in the process of vocational and educational decision making. The Counseling Center faculty are trained in the administration and interpretation of psychological tests, and the student and his or her counselor can decide whether testing might be helpful. Arrangements can also be made at the Counseling Center for taking the Graduate Record Exam, The Graduate Management Aptitude Test, and the Miller Analogies Test — three graduate school admissions tests.
5. *Consultation Services* — The Counseling Center faculty also are available to consult with staff and faculty members of the University community. They can assist with crises, program planning, group and interpersonal communications, as well as referrals to other agencies.

For more information call 436-2301.

Greek Life and Student Organizations

The Office of Greek Life and Student Organizations coordinates the Greek Life program at West Chester University, which includes the activities of the four Greek Governing Councils. The Greek Life and Student Organizations Office also advises West Chester's 23 national fraternities and sororities on their service projects, community activities, rush and pledging programs. The office registers all student organizations at the University and provides leadership development programs for student leaders. The Office is located in 206 Sykes Union, 436-3305.

Health Services

The University Health Center is staffed with two full-time physicians, a certified nurse practitioner, and five registered nurses who are available to meet emergency and first-aid needs, and to perform routine infirmary treatment of minor illnesses and surgical conditions. Gynecological services, including pregnancy and STD testing, contraceptive counseling and routine examinations, are available by appointment only. The

University is not responsible for any additional medical or surgical services or hospitalization. The University Health Center also offers a free flu immunization program for students and faculty.

All students are required to pay a health service fee at the beginning of each semester.

The University Health Center is located in the lower level of Ramsey Hall, 436-2509, and is open seven days a week during fall and spring semesters.

Insurance Programs

Student insurance plans are offered at the Health Center. Several different policies, including accident only or accident and illness, are available.

The University requires all students participating in the intercollegiate athletic program and all students who are members of a club of an athletic nature to purchase the nine-month minimum coverage or to show proof of comparable coverage.

Information on the insurance program is mailed to students prior to registration or may be obtained from the University Health Center.

Liability Insurance Requirement for Students in Nursing. See Department of Nursing.

Student Physical Examinations

In addition to the physical examination required for entering and transfer students, a completed physical examination form must be submitted annually to the University Health Center by all students participating in the intercollegiate athletic program and/or a club of an athletic nature.

A current physical examination including a report of a negative tuberculin test or chest X-ray showing no active tuberculosis is mandated by the Pennsylvania Department of Education for all senior student teachers and all junior or sophomore students participating in a field experience in the public schools.

The University Health Center reserves the right to request an annual physical examination by the family physician for any student suffering from a chronic illness.

No student will be permitted to attend classes until a physical examination form is completed and filed. These forms are available at the University Health Center.

The University Health Center strongly urges all those individuals born after 1957 to receive an updated measles vaccination.

Mail Service

The University has an on-campus post office located on the second floor of Lawrence Center. Commuting students requesting a mail box must show a need for the box by applying to the Office of Off-Campus and Commuter Life in 206 Sykes Union which will approve or disapprove the mail box request. Resident students receive their mail at their residence halls. To insure prompt delivery, mail sent to resident students should show the student's name, room number, the name of the residence hall, and West Chester University, West Chester, PA 19383.

Orientation and Parent Relations

The Office of Orientation and Parent Relations is responsible for the coordination of the Summer Orientation Program, and the September and January Orientation sessions for new students.

West Chester's Orientation programs are designed to introduce new students to the University and acquaint them with the academic, student services and social aspects of college life. Attendance at Orientation, along with taking the freshmen orientation course (University 101) in the fall semester, is a graduation requirement.

Other responsibilities of the office include coordination of the Parent Relations Organization and the annual Family Day program in the fall.

The Orientation and Parent Relations Office is located in 206 Sykes Union, 436-3305.

Public Safety

West Chester University is concerned about the safety and welfare of all campus members and is committed to providing a safe and secure environment. Campus security is the responsibility of the University's Public Safety Department located in the Peoples Maintenance Building at the corner of Church Street and University Avenue.

Because no campus is isolated from crime, the University has developed a series of policies and procedures to ensure that every possible precautionary measure is taken to protect members of the University community while they are on campus.

A full explanation of the University's security policies and procedures, as well as additional pertinent information, appears in a publication called "Your Safety is Our Concern" available from the Office of Admissions.

Vehicle Regulations

A University parking decal is required to park in University lots. Resident students with less than 63 credits (as of September of the academic year in which they wish to register a vehicle) are ineligible to receive or purchase a decal. The decal is valid *only* for University parking lots.

The operation and registration of a vehicle must comform to Commonwealth vehicle law and University regulations. For complete information regarding motor vehicles and registration, please refer to the Motor Vehicle Regulations available at Public Safety.

Student Services, Incorporated (SSI)

Student Services, Incorporated (SSI) is a not-for-profit organization primarily designed to serve the students of West Chester University. The objective of this corporation is to initiate, regulate, and operate the financial matters of all co-curricular student activities. Such activities include the management of the campus bookstore, the auxiliary food services, student publications, student organizations, check cashing/ticket service, the administrative aspects of the student union, student programming, intercollegiate athletics, athletic foundations and clinics, and the graduate student association.

In fiscal matters and in various policy-making areas, the final authority rests with the president of the University.

The SSI Business Office is located in 211 Sykes Union, 436-2955.

Student Standards

West Chester University students are assumed to be mature persons attending an institution of higher learning for serious purposes. Therefore, all students are expected to accept responsibility for their behavior. In situations that deviate from these ideals, on and off campus, West Chester University's Judiciary System is designed to hear complaints against individual students

and groups of students whose behavior is in violation of existing standards of conduct and regulations as outlined in "The Student Code of Conduct" contained in *The Ram's Eye View* student handbook.

In encouraging the development of responsible student conduct, the University employs counseling, guidance, admonition, and example, as well as disciplinary proceedings. Students found in violation of the University's rules and regulations may be subject to disciplinary action which could include suspension and/or expulsion. All tuition and fees are forfeited in the event of suspension or expulsion.

The Student Standards Office is located in the Dean of Students Office, 217 Sykes Union, 436-3511.

Sykes Union Building

This multi-purpose facility brings to the University community a unique approach to educational programming, recreation, social events, dining and cultural activities. The union is truly a meeting place for all members of the University.

Under one roof are lounges, meeting room facilities, recreation and leisure time activities, plus a campus deli. Also housed within this complex are the Student Development Office, SSI, bookstore, checkcashing, ticket service, "Quad" newspaper, WCUR radio, and Information Center.

The Information Center, located in the lobby on the main level, is a central information service for the University. Available at the desk are daily and weekly schedules of campus events, newspapers, maps, transportation materials, and master course schedules.

The union building is open seven days a week. It is located on Rosedale Avenue, 436-2984.

Women's Center

The Women's Center addresses the special concerns of the increasing number of women students who enter West Chester University from high school or return to education after time at home or in the job world. Located in Lawrence Center on the second floor, the Women's Center provides a lounge area for conversation, as well as study; peer advising; and special interest programs (lectures, films, etc.). For more information, including opportunities for student volunteers, call 436-2122.

Activities

Student Activities on Campus

Student activities at West Chester University encompass a wide range of cultural, social, educational and recreational programs for a diverse student population.

The Student Programming Department, under the auspices of Student Services, Inc., takes a leadership role in organizing and sponsoring joint or individual projects as part of its mission. One major role centers on advisory relationships with the Student Activities Council (the major programming organization on campus) and Cheers (a unique and nationally recognized non-alcoholic nightclub that presents the best campus comedians, DJ music and Top 40 bands on Thursday nights in the Sykes Union Building). Current movie hits, area band performances, national cultural entertainment acts, lectures, variety lunch time entertainment, and special events (Welcome Week, Airband, Winter Weekend) all fall under the Student Programming and Student Activities Council banner. Homecoming, Parents Weekend, Spring Weekend, and major benefit concerts are additional special University happenings that unite many segments of the campus. Student Programming is located in 231 Sykes Union Building, 436-2983 or 436-3037.

Students can become a vital force on campus through participation and involvement in student organizations and activities. Every student has an opportunity to attend campus events and/or join an organization that meets their individual needs. Leadership roles are always available, so being active can become one of the more enriching experiences in student life. Becoming involved builds individual integrity and a sense of community, two ingredients necessary in the world beyond the University. Student activities and organizations are the lifeblood of any campus environment and West Chester University has many opportunities.

Student Organizations

Each November, an updated "Student Organizations Directory" is printed which includes the names, addresses, and telephone numbers of all presidents and advisors of over 160 campus student organizations. For more information on WCU student organizations, contact the Office for Student Development, 206 Sykes Union Building, 436-3305. The following is the official list of all student organizations that were registered during the 1989-90 academic year:

Student Governing/Campus Programming Organizations

Freshman Class
Sophomore Class
Junior Class
Senior Class
Graduate Student Association
Off-Campus Student Association
Residence Hall Association
Student Activities Council
Student Government Association
Sykes Union Board of Governors

Academic/Professional Organizations

Accounting Society
Alchemist Club
Anderson Math Club
Anthropology Club of WCU
Art Association
Association for Childhood Education International
Athletic Trainers Club
Communications Club
Computer Club
Criminal Justice Association—Sigma Tau Omicron
Dance Production Workshop
Darlington Biological Society
Ethical Leadership Club
French Club
Forensic Society
Geography Club
German Club
Graphica Club
History Club
Honors Student Association
Italian Club
Law Society
Linguistics Club
Marketing Society
Metamorphose
National Association of Accountants
National Student Speech, Hearing and Language Association
Philosophy Club
Political Science Club
Psychology Club
Social Work Club
Society for the Advancement of Management

Society of Physics Students
Sociology Club—Delta Alpha Tau
Spanish Club
Special Education Club
Student Electrical and Television Staff
Student PSEA, NEA
Student Nurses' Association of Pennsylvania (SNAP)
West Chester Association for the Education of Young Children
Theater Dance Group
WCU Theater

Special Interest Organizations

Black Student Union
Chess Club
Disabled Student Union
The Gay and Lesbian Student Union
The Glass Tower Club (Adult Learners Club)
Hispanic Student Union
International Student Association
National Student Exchange Organization
Photography Club
Recreational Services
Semper Fidelis
Together Toward Peace
Women's Center Club

Religious Organizations

Baptist Student Ministry
Campus Crusade for Christ
Christians in Action
Collegiate Christian Fellowship
Ecumenical Campus Ministry
Hillel Jewish Student Union
Inter-Varsity Christian Fellowship
Latter Day Saints Student Association
Lutheran Student Association
Muslim Student Association
Newman Student Association
Westminster College Fellowship

Service Organizations

The Abbé Society
Alpha Phi Omega
Emergency Medical Services
Friars Society
Men Achieving Knowledge
Phi Sigma Pi
University Ambassadors

Greek Letter Organizations Governing Councils

Black Greek Council
Inter-Fraternity Council
Inter-Greek Council
Order of Omega
Panhellenic Council

Fraternities

Alpha Chi Rho
Alpha Phi Alpha
Kappa Alpha Psi
Kappa Delta Rho
Omega Psi Phi
Phi Beta Sigma
Phi Delta Theta
Phi Kappa Sigma
Phi Kappa Theta
Pi Kappa Phi
Sigma Pi
Sigma Phi Epsilon
Theta Chi
Zeta Beta Tau

Sororities

Alpha Kappa Alpha
Alpha Phi
Alpha Sigma Tau
Alpha Xi Delta
Delta Phi Epsilon
Delta Sigma Theta
Delta Zeta
Zeta Tau Alpha
Zeta Phi Beta

Publications and Media Organizations

Daedalus
The Quad
Ram TV News
The Serpentine
WCUR—West Chester University Radio

Sports Clubs

Boxing
Equestrian
Fencing
Ice Hockey
Karate
Rugby
Skiing
Sports Club Council
Water Polo
Women's Soccer

Musical Organizations

Brass Ensemble
Chamber Choir
Collegium Musicum
Concert Band
Concert Choir
Criterions Jazz Ensemble
Field of View
Flute Ensemble
Gospel Choir
Guitar Ensemble
Kappa Kappa Psi
Marching Band—"Golden Rams"
Masterworks Chorus
Music Educator's National Conference—Chapter 21 (PCMEA)
Percussion Ensemble
Phi Mu Alpha Sinfonia
Saxophone Ensemble
Sigma Alpha Iota
Symphonic Band
Symphony Orchestra
Tau Beta Sigma
University Chorale
Wind Ensemble

Honor Societies

Anthropology/Sociology—Alpha Kappa Delta
Childhood Studies and Reading—Alpha Upsilon Alpha
Economics—Alpha Epsilon
Education—Delta Kappa Gamma
Education—Kappa Delta Pi
Education—Phi Delta Kappa
English—Sigma Tau Delta
Foreign Languages—Alpha Mu Gamma
Geology—Sigma Gamma Epsilon
Geography—Gamma Theta Upsilon
Health Science—Eta Sigma Gamma
History—Phi Alpha Theta
Mathematical Sciences—Pi Mu Epsilon
Music—Pi Kappa Lambda
Nursing
Philosophy—Phi Sigma Tau
Physical Education—Phi Epsilon Kappa
Physics—Sigma Pi Sigma
Political Science—Pi Sigma Alpha
Psychology—Psi Chi
Social Science—Pi Gamma Mu
Speech Communication and Theater—Alpha Psi Omega
Speech Communication and Theater—Pi Kappa Delta

What follows is just a sampling of information about some of the student groups on campus. For a comprehensive listing of descriptions, please refer to the *Ram's Eye View Student Handbook*.

Student Governing/Campus Programming Organizations

The Student Government Association (SGA) is the legislative body that represents the students at West Chester University. Under guidance from the vice president for student affairs, SGA represents student opinions concerning policies and procedures, deals with issues on campus that have a direct effect on students, and gives students experience in the processes of government. All students are automatically

members of SGA upon paying the activity fee which is included in the tuition bill.

The purpose of the Residence Hall Association is to provide for the social, cultural, and educational life of resident students. RHA purchases and maintains recreational equipment, provides social events and aids the residence life staff in educational programming, living conditions, and regulations in the residence halls. Its varied activities stem from representation and participation within the residence halls. Each hall has a representative from every floor and a slate of officers. The officers from every residence hall represent their respective halls in the Residence Hall Association General Assembly. The hall presidents sit on the RHA Board of Presidents, the decision-making body of the organization. The board then appoints an executive director to act as official spokesperson for the organization.

The Off-Campus Student Association (OCSA) is a student organization whose primary goal is the representation of all students living off campus. OCSA objectives include distribution of University information, designing educational and social programming, and development of positive community relations. Through representation and input to various University committees, OCSA represents the ideas and concerns of all students living in the West Chester community as well as students who commute to the University.

The Student Activities Council is a major organization funded through the SSI activity fee. Its goal is to develop an on-going series of co-curricular activities which complement the academic experience, providing events that are entertaining and intellectually fulfilling. The council strives to achieve this end through the mediums of the visual arts (film and video); the performing arts (lecture, theatre and dance); and contemporary performances (concert and cabaret).

Academic/Professional and Special Interest Organizations

Communication Club. The Communication Club provides opportunities for students to learn about communication as an area of study, research and application in an informal manner. Social functions, guest speakers, field trips and conferences are provided in conjunction with the Department of Speech Communication and Theatre.

Forensics. The University has a strong program in intramural and intercollegiate forensics. Its Forensic Society is the focal point for training in competition in debate, oratory, extemporaneous speaking, after-dinner speaking, discussion, interpretive reading, and other events.

University Theatre. Excellent opportunities for experience in theatre are offered through this student organization which functions in the Studio Theatre and the Playhouse. Its major productions, drawn both from the classics and from contemporary drama, are outstanding events for the University and the community as well. All students with an interest in drama are welcome.

Student Nurses Association of Pennsylvania (SNAP). One of the goals of the Nursing Department is to encourage a commitment to professional nursing. The SNAP organization helps build professional nursing interests and aids in the development of the whole person through various interdisciplinary educational programs and services. SNAP is a constituent member of the National Student Nurses' Association.

SNAP gives students an opportunity to be involved in nursing.

The Black Student Union, which was formed in 1971, is dedicated to the creation of a relevant atmosphere for black students at West Chester. Black Student Union membership is open to all West Chester students, faculty, and staff — regardless of race, color, or creed — who have a concern for the black cause.

A major purpose of the organization is to broaden and enhance the academic and social life for the black students at the University. The union's democratically structured constitution provides for an executive board elected by the membership. Applications for membership in the Black Student Union are reviewed by the executive board. Application may be made at the Black Student Union office in Sykes Union Building.

Religious Organizations

In addition to the religious student organizations listed above, the West Chester Community has a large number of churches and synagogues representing many religious denominations. Students are always welcome at these places of worship.

A complete listing of religious student organizations and local community denominations can be found in the "Religious Life Directory" which is published by the Religious Life Council and the Division of Student Affairs. The Religious Life Council also coordinates religious programs and activities on campus. For more information contact the Office for Student Development, 206 Sykes Union.

Service Organizations

Alpha Phi Omega. Omicron Upsilon chapter of this fraternity, which is dedicated to service and leadership development, is open to all men of the campus community. Omicron Upsilon chapter conducts many service-oriented activities.

The Friars Society. The Friars Society, which has been established at West Chester for many years, is composed of sophomore, junior, and senior men invited into the organization in recognition of character and leadership. The society's various service projects concern the good of the University community.

The Abbé Society. The Abbé Society is an honorary service society composed of sophomore, junior and senior women. Members are selected on criteria of character, leadership and friendship. Projects conducted by the sisters serve both the community and the University throughout the year. The Abbé Society is the complementary organization to the men's Friars Society.

The West Chester University Emergency Medical Services is a volunteer-run organization of student health professionals who enjoy helping people. A quick-response unit is maintained to provide emergency medical care to the campus community, providing temporary emergency care 24 hours a day, during the academic year. The EMS also plays an active role in the education of the campus community in first aid and CPR. Necessary training is provided to those interested in joining.

Greek Letter Organizations

The University has a system of 14 national fraternities and nine national

sororities which are previously listed. The system is governed by the Black Greek Council, the Interfraternity Council, the Inter-Greek Council and the Panhellenic Council. Since their introduction in 1969, the social fraternities and sororities have become an integral part of campus life.

Publications and Media Organizations

The Quad. The student newspaper of West Chester University is published weekly by a student staff with a faculty member as advisor. In addition to its primary role in disseminating news of campus events, the Quad also provides students with practical experience in reporting, editing, and photography, as well as in advertising and the business side of newspaper publishing. Students interested in working for the Quad should call the editor at 436-2793 or come to the office, 223 Sykes Union Building.

The Serpentine. The yearbook provides a pictorial and written record of the year's activities at the University. It is edited by a student staff with a faculty advisor. Positions on the yearbook staff are always available for incoming and advanced students. The training and experience gained in photography, writing, layout, and administration is useful in the publishing industry and many other careers.

Station WCUR. The campus radio station at West Chester University offers experience in all phases of radio broadcasting from on-air activities, to production, to business and advertising. Operated entirely by students, WCUR offers practical work opportunities in a learning atmosphere. As well as providing student members with experience, WCUR offers the University community a broad range of music styles (including progressive rock, jazz, new age, reggae and more) as well as the latest in news from across the campus to across the country.

Musical Organizations

In conjunction with the regularly scheduled student and faculty recitals, the University maintains the following well-developed musical organizations which contribute to the wealth of fine music on the campus.

Three University Bands. Membership in the Symphonic Band, Concert Band, and Marching Band is determined by the student's qualifications regardless of curriculum.

Chamber Orchestra. Membership in this organization is open to all qualified students.

Collegium Musicum. A chamber ensemble specializing in the use of authentic instruments and performance techniques in the music of the Medieval, Renaissance, and Baroque eras. Open by audition.

Wind Ensemble. A band of 50 to 60 outstanding campus wind instrumentalists and percussionists, the ensemble performs difficult music emphasizing contemporary works.

Symphony Orchestra. Membership is determined by the student's qualifications.

Instrumental Ensembles and Chamber Music Groups. Membership in these groups is determined by the student's qualifications.

The Criterions and Statesmen. Members of the University jazz bands are selected by audition.

Concert Choir. This mixed choir of approximately 40 music students selected by audition meets twice a week, devoting its efforts toward acquiring a fine technique of choral singing through the preparation of an extensive repertoire for performance.

Chamber Choir. Members of this choir, which performs music of the Renaissance and baroque periods, are selected by audition.

Masterworks Chorus. A mixed chorus of music students. Open to other members of the University community by audition.

Opera Chorus. The chorus is formed through an elective course devoted to the training of a choral group which participates in opera and operetta production. Membership is by audition.

Phi Mu Alpha Sinfonia. Rho Sigma chapter of the professional men's music fraternity was formed at West Chester in 1967. The organization seeks to advance the cause of music in America and to foster the welfare and brotherhood of students of music. Upon approval by the brotherhood prospective members are invited to pledge the fraternity. These prospective members must be at least second semester freshmen.

Sigma Alpha Iota. Epsilon Epsilon chapter of this internationally incorporated professional fraternity for women in music was formed in 1968. The fraternity is dedicated to service in the field of music. Membership, by invitation, recognizes scholarship and musicianship. Members must be in at least their second semester.

University Chorale. A chorus presenting a wide selection of choral music for mixed chorus. Music of high school level as well as more advanced literature is presented. Open to students in other curricula through audition.

Kappa Kappa Psi. The band fraternity, Kappa Kappa Psi, was formed in the fall of 1980 to support the band program. KKY concentrates on serving the band and School of Music by means of fund raising and service projects. Any member of the marching band or visual ensemble can pledge KKY. Information is posted in Swope Hall, the music building, at the beginning of the fall semester.

Tau Beta Sigma. The band sorority, Tau Beta Sigma, was formed in fall 1980 to support the band program. TBS concentrates on serving the band and School of Music by means of fund raising and service projects. Any member of the marching band or visual ensemble can pledge TBS. Information is posted in Swope Hall, the music building, at the beginning of the fall semester.

Honor Societies

Alpha Epsilon. This society is the West Chester chapter of Omicron Delta Epsilon, an international economics honor society, which recognizes high scholastic achievement in the field of economics. Students must achieve a 3.0 average and have had 12 semester hours of economics with a "B" average to maintain membership in the organization.

Alpha Kappa Delta. This international honor society is dedicated to promoting interest in the study of sociology and sociological research that will lead to the improvement of the human condition. It is open to sociology majors and minors who have completed four sociology courses and have earned at least 64 semester hours of credit with a minimum grade point average of 3.0.

Alpha Mu Gamma. The Department of Foreign Languages sponsors a chapter of this national collegiate foreign lan-

guage honor society, devoted to promoting the study of foreign languages and encouraging cultural exchange with foreign students.

Alpha Psi Omega. This honorary fraternity recognizes excellence in and dedication to the theatre arts. It is sponsored by the Department of Speech Communication and Theatre and membership is open to all students regardless of major.

Alpha Upsilon Alpha is an international specialty honor society representing the field of reading and language arts. The purpose of this society is to recognize scholarship, leadership, and service in the field of reading with special emphasis at the undergraduate and graduate levels. A grade point average of 3.50 is required.

Eta Sigma Gamma. The Department of Health sponsors the Beta Xi Chapter of this national professional honorary society in health science. Its purpose is to elevate the standards, ideals, competence, and ethics of professionally trained men and women in public health, school health and environmental health. Juniors and seniors in these disciplines who have demonstrated high academic achievement are eligible for membership.

Gamma Theta Upsilon. Gamma Eta Chapter of this international professional geographical honorary society was established in 1963. The organization promotes professional interest in geography and provides services with the Department of Government and Planning.

Kappa Delta Pi. Kappa Delta Pi is a national honorary society for junior and senior students in education who excel in scholarship, maintain high personal standards, and are dedicated to the teaching profession.

Nursing Honor Society. This honor society, sponsored by the Department of Nursing, was chartered in 1985. Its purposes are to recognize superior achievement, develop leadership qualities, foster high professional standards, encourage creative work, and strengthen commitment to the ideals and purposes of the nursing profession. The society is in the process of applying for a charter chapter in *Sigma Theta Tau,* the international honor society of nursing.

Phi Alpha Theta. Organized in 1968, Nu Sigma chapter of this international honor society in history is sponsored by the Department of History. Phi Alpha Theta is open to all who have completed 12 or more semester hours in history with a minimum average of 3.01 and have maintained at least a 3.0 in two-thirds of their other course work.

Phi Delta Kappa. This is an international honor society in graduate education for men and women who are actively engaged in the profession of education. Its aim is to promote quality education on all levels, particularly in publicly supported education. Results of research are reported in its extensive publications. The West Chester University campus chapter includes over one hundred members from the surrounding area and from the campus.

Phi Epsilon Kappa. The School of Health Sciences sponsors the Gamma Alpha Chapter of this national, professional honor fraternity for students majoring in health and/or physical education. Phi Epsilon Kappa seeks to advance the profession of health and physical education.

Phi Sigma Tau. The Department of Philosophy sponsors the Pennsylvania Rho chapter of this national honor society, which recognizes academic excellence both in philosophy and in general studies. Membership is open to all students, regardless of major.

Pi Gamma Mu. The Omega chapter recognizes scholarship in the social sciences and encourages social service. Majors in the social sciences who have demonstrated high academic achievement may become candidates for membership in their junior or senior years.

Pi Kappa Delta. A chapter of this national honor society for students in competitive forensic activities was established in 1969. Pi Kappa Delta has its base in the Forensic Society.

Pi Kappa Lambda. The primary objectives of this national music honor society are the recognition and encouragement of the highest level of musical achievement and academic scholarship. Nominations and elections to membership are the responsibility of the faculty committee of the chapter. Delta Sigma chapter at West Chester University was established in 1978.

Pi Mu Epsilon. This national mathematics society is open to junior students who rank in the upper-third of their class and have completed 18 hours of mathematics with a minimum average of 3.0. It is also open to sophomores who rank in the top quarter of their class and have completed three semesters of the calculus sequence with an average of 4.0.

Pi Sigma Alpha. Organized in 1983, the Xi Gamma chapter of Pi Sigma Alpha, the national political science honor society, receives into membership students of government, political science, public administration, and international relations, irrespective of their membership in other honor societies or organizations, when such students attain high standards of scholarship and academic distinction both in political science and in the sum total of their academic work.

Psi Chi. A chapter of this national honor society in psychology is sponsored by the Department of Psychology. Membership is by invitation, with scholarship as the major criterion. Psi Chi, under the aegis of the American Psychological Association, endeavors to advance the science of psychology and encourages superior scholarship in all academic fields, particularly in psychology.

Sigma Gamma Epsilon. The Department of Geology and Astronomy sponsors the Zeta Beta chapter of this national honor society. The society was established to recognize scholarship and professionalism in the earth sciences. The Zeta Beta chapter has as its objectives the scholastic advancement of its members and the extension of service to the University and local communities. Membership is open to any student who has completed at least 12 semester hours in earth science courses and has maintained a minimum 3.0 GPA in all earth science courses together with an overall GPA of 2.67.

Sigma Tau Delta. Under the sponsorship of the English Department, a chapter of Sigma Tau Delta, national honor society for students of English, was established at West Chester University in 1977. This organization has for its major purpose the stimulation of interest in all phases of the study of English language and literature.

Recreational Services

The Office of Recreational Services provides leisure-time activities for the University community. Recognizing

that the needs of individuals differ, Recreational Services provides activities in four program areas.

The *Recreational Sports (Intramurals) Program* allows students to participate in individual and/or group competitive experiences. The Recreational Sports Program promotes health and encourages the wise use of leisure time. This program is for students who do not have the time or desire to take part in intercollegiate athletics. Regardless of ability, each participant may successfully take part in any of about two dozen individual and team sports.

For students who enjoy organized sports other than varsity teams, the *West Chester University Sports Club Program* is ideal. This program is for both highly experienced players and those who are merely interested in learning a new sport for fun or skill. Joining a club provides opportunities for instruction, coaching, socialization, and fun. Physical education majors receive a sports credit through participation in a club program. West Chester University sponsors the following clubs: boxing, equestrian, fencing, ice hockey, karate, rugby, skiing, and women's soccer.

Outdoor recreation opportunities are conducted through the Outdoor Adventure Center, which provides for participation in low-impact, low-cost and people-powered outdoor activities. Canoeing, bicycle touring, rafting, caving, cross-country skiing, backpacking and summer/winter camping are among the many activities offered through the Outdoor Adventure Center for both novices and seasoned outdoor adventurers.

For students who are not interested in formal recreational activities, facilities are available for *free play and open recreation.* Special events, which are conducted throughout the year, add more activities to the program and are open to the University community.

For more information contact the Office of Recreational Services in 133 Ehinger Gym, 2131 or 2133.

Intercollegiate Athletic Program

Athletic activities are an important part of the University experience — indeed, a facet of education. The underlying purpose of West Chester's athletic program is the development of enduring educational values. To achieve this, the athletic programs provide a broad variety of team and individual sports for women and men students.

The women's intercollegiate athletic programs include: basketball, cross-country, field hockey, gymnastics, indoor track, lacrosse, softball, swimming and diving, tennis, track and field and volleyball. The men's intercollegiate athletic programs include: baseball, basketball, cross-country, football, golf, indoor track, lacrosse, soccer, swimming and diving, tennis, and track and field.

West Chester University is a member of the National Collegiate Athletic Association, Eastern Collegiate Athletic Conference and Pennsylvania State Athletic Conference.

West Chester's Health and Physical Education Center and field complex, Hollinger Field House, and Farrell Stadium afford excellent facilities and equipment for the University's broad and varied athletic programs.

Alumni Association

The West Chester University Alumni Association is an organization of more than 50,000 graduates of the University. The Alumni Association is dedicated to strengthening and furthering the interests of the University.

It maintains a variety of programs designed to serve the University and promote fellowship among the membership.

Two major on-campus events are Homecoming held each fall and Alumni Day which takes place in the spring. Geographical groups exist in New Jersey, Washington, D.C., California and various Pennsylvania communities. The University publication RAMPARTS, the official alumni bulletin, is circulated to members four times per year.

Academic Affairs

West Chester University's undergraduate programs include teaching certification programs, local certificate programs, and programs of study leading to the Associate of Arts, Associate of Science, Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Science in Education, Bachelor of Science, and Bachelor of Science in Nursing. A complete list of undergraduate degree programs appears on page 42. Programs of study at the graduate level are also available. These are listed on pages 29-30 and are described in detail in the graduate catalog.

Honors Program

The University provides to outstanding students the opportunity to participate in a challenging Honors Program and to receive appropriate recognition when they complete the requirements. The program comprises two tiers: Honors in General Education and Junior-Senior Honors.

A certificate for Honors in General Education is awarded to a student who completes six of the lower-tier courses. These six courses ordinarily include at least one in the fine arts and humanities, one in the natural sciences or mathematics, and one in the social sciences. Normally, not more than one course in writing counts towards this requirement (usually English 121) and not more than one course in education. These honors courses are taken in lieu of the corresponding general-education courses required by the University; they are not additional requirements.

A certificate in Junior-Senior Honors is awarded to a student who completes only the upper tier of the program; a student who has completed both tiers is granted a certificate in University Honors. Requirements for the upper tier comprise two of the interdisciplinary seminars offered by the program itself and a senior project, which is usually done in the student's major field. The seminars are usually new each semester; recent topics have included "Future Energy Alternatives," "The Arts from 1900 to 1920," "Death

and Dying," "Gender, War, and Peace," and "Elizabethan England." Senior projects have been of many types, including library research theses, computer programs, recitals and portfolios in the arts. Individual initiative is encouraged.

Students completing both tiers, for the certificate in University Honors, should also, if their program allows it, become proficient either in a foreign language or in mathematics.

The program provides optional housing in an honors dormitory. Many honors students, however, live in other campus dormitories, in town, or at home.

An Honors Council, which includes both faculty and students, sets the policies of the program. A committee of that council, working with the director, determines the admission and retention of students. Further information about the Honors Program—requirements, offerings, housing, and the extracurricular activities of the Honors Student Association—is available from Dr. Walter Hipple, Director, Honors Program, Room 131, Main Hall, West Chester University, West Chester, PA, 436-2996.

International Education

Established in 1986, the Center for International Programs is responsible for coordinating study abroad programs, international faculty exchanges, visitations by foreign scholars and international programs for the campus and the broader community. In addition, the Center for International Programs actively promotes the development of an international curriculum, facilitates internships and independent study abroad and provides a variety of essential services for the approximately 300 international students from more than 50 different nations.

West Chester University currently operates its own study abroad programs in the United Kingdom, France, and Japan. At the University of Wales in Swansea and at the University of Paul Valèry in Montpellier, France, students are encouraged to participate in University-sponsored junior year abroad programs. Study opportunities are also available at West Chester University's educational center in Fukuoka, Japan. Originally opened as an English Language Institute in April, 1989, the University expects to offer both undergraduate and master's degrees by 1995 at this educational center on Kyushu, the southernmost island of Japan. The University also expects to expand study abroad opportunities in England, Australia, Germany, Spain, Italy, Mexico and other nations over the next several years.

As expected, the Department of Foreign Languages contributes to the development of study abroad programs and the internationalization of the campus. The Department, through its highly acclaimed Critical Language Program, regularly offers courses in Greek, Finnish, Chinese, Japanese, Arabic and several other languages in addition to its regularly scheduled series of courses in German, French, Spanish, Italian and Russian.

Special summer study abroad opportunities are coordinated through the Center for International Education. The University's Institute for British Studies currently offers summer courses at Oxford University, England, and the School of Music regularly offers a summer program in Salzburg, Austria. In addition, the University sponsors a series of travel study programs to numerous overseas locations including the Galapagos Islands, Egypt, Soviet Union, China, Kenya, Australia, Nepal, Morocco, and other locations. These programs, which generally run from two to three weeks, are available to students as well as the community and may be taken for credit if desired. Travel/study programs are generally offered in the summer or in January, during the semester break.

International travel and study opportunities for American and foreign students and for the community are expected to expand rapidly over the next several years. Anyone interested in taking advantage of these opportunities is encouraged to contact the Center for International Programs, 102 Old Library, for details on current program options.

National Student Exchange Program

West Chester is one of approximately 80 American colleges and universities, ranging from the University of Hawaii at Manoa to the Universities of Maine and South Florida, which participate in the National Student Exchange Program. The project gives students an opportunity to widen their cultural and academic horizons through a semester or a year of study in another part of the United States without paying out-of-state tuition fees or incurring such complications as credit transfers. The exchange usually takes place during the sophomore or junior years so that returning students may share their experiences with students on the West Chester campus. In order to qualify for the program, applicants must be full-time students with a 2.5 grade point average. The annual recruitment program takes place during the fall semester and the first part of the spring semester with placement for the following school year occurring midway through the spring semester.

Pre-Professional Study and Advising

West Chester University recognizes that some students will select a career goal which will require pursuit of an academic degree after the baccalaureate, either in graduate school or at a professional school. Students with such goals are encouraged to discuss them with appropriate members of the faculty.

Pre-Medical. Students interested in graduate studies in one of the health professions (dentistry, medicine, optometry, veterinary medicine) are encouraged to apply for admission to the Pre-Medical Program which is supervised by members of the Pre-Medical Committee. More about this program can be found under the Pre-Medical Program listing in the section on Programs of Study and Course Offerings later in this catalog.

Pre-Law. Students who are contemplating going on to law school should take part in the pre-law advisory program, conducted by the Department of Political Science in order to select major and elective courses which will provide a sound foundation for later studies in law school. The program of study pursued by the pre-law student will depend in part upon the student's breadth of competence in oral and written communication. Pre-law students may be found in a variety of major fields of study. They are encouraged to participate in the Law Club.

West Chester University provides a **Pre-Engineering** Program in cooperation with The Pennsylvania State University. At the end of five years, a student earns a B.S. in physics from West

Chester University and a B.S. in engineering from The Pennsylvania State University. Students may choose from 14 fields of engineering listed in the Physics section of this catalog.

Pre-Theology. Pre-seminary students tend to major in religious studies under the auspices of the Department of Philosophy but select courses from a wide variety of disciplines. Students interested in graduate studies in theology and religious studies should work out their programs of study with the Department of Philosophy.

Center for Academic Excellence

The Center for Academic Excellence helps students attain excellence in their academic pursuits through a variety of services.

The **Undeclared Major Program** allows students who have not yet chosen a major to explore their fields of interest before entering a degree program. For up to three full semesters, students may schedule courses which fulfill the general education requirements. Other courses may be selected in a wide range of disciplines.

Students should understand that certain academic programs require prerequisites for further study. Completion of such prerequisites, if not undertaken during the period of study as an undeclared major, may prolong university attendance.

A student may transfer into a program from undeclared status only if

1. There is a vacancy in the desired program,
2. The chairperson of that program approves, and
3. A formal approved change of curriculum form has been filed in the Office of the Registrar.

Students should inquire about program vacancies as early as possible during their first year of study.

The Undeclared Major Program is administered by the Academic Advising Center located in Lawrence Center, Rooms 105 and 132.

The Academic Advising Center provides the following services for students who have not yet declared a major:

- Advice regarding course selection
- Assistance in establishing educational objectives
- Information regarding various programs offered by the University
- Advice to students in academic difficulty
- Referral to University Support Services
- Guidance in and instructions for declaring a major
- Interpretation of University, school, and department regulations, rules and requirements.

The center also makes information regarding University services available to late afternoon and evening students. For more information call 436-3505, or visit rooms 105 and 132, Lawrence Center.

The **University Tutoring Center** offers tutoring free to registered students at the University. Most of the resources of the center are focused on freshmen and on those students enrolled in developmental and basic skills courses in English, mathematics and reading. Sessions are scheduled on an hourly basis and most students find they receive the help they need in one or two weekly individual or small group sessions. The center is open daily and several evenings each week. Its basic focus is on assisting students to become independent learners. Call 436-3505 for more information or visit the center in Room 105 Lawrence Center.

The **Academic Development Program** is designed to provide an opportunity for a college education at West Chester University to those students who do not meet current admission requirements but who show a potential for success in college. Students admitted to the program are expected to take advantage of the program components which have been developed to enhance their skills in reading, writing, speaking, mathematics, and critical thinking, as well as to help them in their transition from high school to college.

The Academic Development Program is comprised of a series of required courses supplemented by specialized tutoring, counseling, scheduling, and advising.

The program begins with intensive six-week preparatory courses during the summer which students must complete to be eligible for fall enrollment. This required coursework is credit-bearing, but credits earned for developmental courses in writing, mathematics, reading, or speech are not applicable toward the accumulation of credits toward graduation.

Students in the program are also required to complete the following courses: ENG 120, ENG 121, SPC 101, and EDR 100, all of which should be taken as soon as possible after completion of summer requirements. All of these courses satisfy University requirements for graduation. Students will be advised also on the completion of General Education Requirements and, as necessary, on the transition into a major course of study.

For further information, please contact Dr. Peter T. Kyper, Director, Academic Development Program, 105 Lawrence Center 436-3505.

The **Office of Special Service to Disabled Students** provides physically disabled and learning impaired students and their families with diagnostic service information; special course scheduling; adaptive computer, cassette tape, and other educational equipment; assistance acquiring BVR financial support; student support groups; and a liaison to professors regarding students' special needs. Currently, the following buildings are accessible to the physically disabled:

- Main Hall
- Anderson Hall
- Francis Harvey Green Library
- Recitation Hall
- Elsie O. Bull Center
- Ruby Jones Hall
- Mitchell Hall
- McCoy Center Classroom Facility
- Ramsey Hall
- Schmucker Science Center
- South Campus Field House
- Special Education Building
- Farrell Stadium
- Swope Hall
- Sykes Union (from rear entrance)
- Sanderson Hall
- Tyson Hall
- Goshen Hall
- Lawrence Center
- Maintenance Building
- Hollinger Field House
- Ehinger Gymnasium
- Reynolds (partial)
- Schmidt Hall
- Wayne Hall
- Emil H. Messikomer Hall (Office of Admissions)
- Philips Memorial (Auditorium and first floor administrative offices)
- Exton Corporate Center

For more information, contact the director of the Office of Special Ser-

vices to Disabled Students, 253 Francis Harvey Green Library 436-2919.

The Study Skills Project is a one-credit, self-paced, computer-assisted learning strategies course which helps students gain proficiency in time management, mastering a reading assignment, taking notes, studying to remember, and other study skills. The Study Skills Project is located in Room 103, Lawrence Center. For more information, call 436-2174.

The Writing Program

West Chester University's cross-disciplinary Writing Program was begun in 1978 as a pilot project funded by the National Endowment for the Humanities and the Pennsylvania State College Educational Trust Fund. Building on the skills developed in English composition courses, the program is based on the assumption that writing is integral to all academic learning in liberal and professional studies. The program's focus is therefore not on remediation but on enhancement; the University regards writing as much more than a set of basic language skills. The program provides for:

(1) *Writing-Emphasis Courses each semester* in traditional liberal studies (for example, English literature, history, anthropology, sociology, chemistry, and physics) and in professional studies (for example, criminal justice, early childhood education, nursing, and public health).

(2) *A general requirement that all students must take three of these writing-emphasis courses,* in addition to English composition, before their senior year.

(3) *In-house lectures, seminars, and workshops on writing* for faculty members in all disciplines.

The WCU Writing Program has been recognized for its scope and achievement by the Association of American Colleges. It has also sponsored the Pennsylvania Writing Project, an outreach program for teachers in local schools. The Writing Program is administered by a director and a committee of one student and six faculty members representing different fields of study.

Internships

A number of departments offer the opportunity for internships, field experiences or practicums in which students may be employed in their field of interest to earn credit. Additional information is available under the various department listings and from the departments.

Summer Sessions

West Chester University's summer program, the oldest summer program in the United States, has one of the largest enrollments in the State System of Higher Education. Over 600 courses, both graduate and undergraduate, are offered including workshops, seminars, and internships as well as the usual classes. Offerings are available in every department and in interdisciplinary areas.

Students from any college or university as well as non-traditional students may take courses for enjoyment, personal growth, or degree credit. The summer program runs for 12 weeks (two three-week sessions and one six-week session), and a student can earn up to 12 credits during the summer sessions.

Summer Session catalogs, containing the course schedules and registration cards, may be obtained from the director of summer sessions (undergraduate) and the dean of graduate studies (graduate). For more information contact the Summer Sessions Office at 436-2230.

University College

The University College, which was created in 1985, focuses on the programmatic and service needs of adult learners. It works with individual students as well as with civic, social, governmental and corporate entities to identify educational and training needs. It responds to these needs by offering a varied program of credit and non-credit courses, workshops and seminars designed to meet the needs of individual adults as well as the particular needs of business and governmental organizations. The University College is organized into three centers: The Center for Adult, Evening and Alternative Studies; The Center for Business, Industry and Government; and The Center for Community Education.

The Center for Adult, Evening and Alternative Studies coordinates the evening studies program and all continuing education credit courses. The evening program offers basic courses which meet the general education requirements and elective portions of most four-year degree programs. In addition, students can earn a bachelor's degree in the evening in the following areas:

- Accounting
- Chemistry
- Computer Science
- Criminal Justice
- Geography/Planning
- History
- Liberal Studies
- Management
- Marketing
- Psychology

Services available to adult learners include:

- Telephone Registration
- Academic Advising
- Tutoring
- Career Information and Guidance
- Daytime Child Care
- Personal and Family Counseling
- Financial Aid

Many adult learners have acquired a great deal of knowledge outside the framework of a formal institution of higher education—knowledge which may be equivalent to college course offerings. The Center for Adult, Evening and Alternative Studies advises students on how to earn college credit for this learning. Available programs include:

- Credit by Examination
- The CLEP Program
- Portfolio Development and Assessment

The Center for Adult, Evening and Alternative Studies coordinates two off-campus centers, one at Exton and one in Upper Darby at the Drexel Hill Middle School in Delaware County. Exton offers graduate and undergraduate business, liberal arts, and education courses. The Upper Darby center offers graduate education courses.

The Center for Business, Industry and Government (CBIG) is an educational resource office for business, industry and government. It responds to requests from the corporate community for needs assessments, training proposals, referral services, and more. It also provides a variety of services to smaller businesses, non-profit organizations and government agencies.

Services available to business, industry and government include:

- "No charge" needs assessments
- Custom-designed education/training programs held on-site
- Referral services for businesses seeking student interns, faculty consultants, job candidates, University information
- Co-sponsorship of business community events
- Short courses, seminars, workshops held on-campus for business

CBIG can bring virtually any non-credit training program requested to the workplace, since it calls on national experts when University resources are not available. Following is a small sample of the broad selection of offerings:

- Management Skills for the First-Time Supervisor
- Conflict Management and Resolution
- Managing People
- Communication Skills Workshop
- Project Management
- Finance and Accounting for the Non-Financial Manager
- Improving Customer Service
- Managing Technical Organizations

The Center for Community Education is responsible for all non-credit activities the University offers to the community at large. The center offers a variety of continuing education programs for adults who wish to continue their education, but who do not necessarily seek college credit. The courses, which often give students more leverage in the job market, cover topics like:

- Real Estate
- Computer Skills
- Financial Planning
- Professional Development
- Family and Health Issues

The center also arranges for the rental of University facilities by outside organizations. Available areas include:

- Classrooms
- Conference rooms
- Sports complex
- Training facilities

These activities may carry undergraduate or graduate credit, in-service credit, continuing education units or no credit at all. For information about any of the above programs, contact the University College, Room 144 Elsie O. Bull Center, 436-3550.

Veterans Affairs

Under the provisions of Title 38, West Chester University is an accredited university for the education of veterans. The University cooperates with the Veterans Administration to see that honorably separated or discharged veterans receive every consideration consistent with either degree or non-degree admission standards.

All veterans, certain dependents of disabled or deceased veterans, and war orphans who wish to obtain educational benefits under the appropriate public laws must register with the office of Veterans Affairs at initial registration. Veterans must renew their registration with this office at the beginning of each subsequent semester and each summer session. The Veterans Administration requires students who are veterans to schedule at least 12 semester hours per semester in order to receive full benefits under the G.I. bill.

A representative of the Veterans Administration is in the Financial Aid Office, Room 138, Elsie O. Bull Center, counseling and acting as liaison between students and the Veterans Affairs Office in financial and other matters.

Armed Services Programs

Army Reserve Officers' Training Corps (ROTC) is available through a cross-enrollment agreement with Widener University. All classes are conducted on the campus of Widener University. Students receive 1.5 credit hours per course (maximum 12 credit hours) towards their baccalaureate programs.

West Chester students may also enroll in the **Air Force Reserve Officers' Training Program (ROTC)** through a cross-enrollment agreement with Saint Joseph's University. All aerospace studies courses are held on the Saint Joseph's University campus.

The University, with the approval of the Council of Trustees, permits West Chester University students enrolled in the **Armed Services Reserve Officer Candidate Program (ROC)** to receive six semester hours of baccalaureate credit upon successful completion and certification of ROC military requirements. Such credits are classified as free elective transfer credits. Depending on the status of the student's program at the time of ROC credit transfer, these credits will be counted toward, or in excess of, the 128 credits required for a baccalaureate degree.

ROC programs are contingent upon successful completion of military requirement during vacation and the award of a college degree before being granted the service commission. The programs cover the Navy's Basic and Advanced Reserve Officer Candidate courses and the Marine Corps' Junior and Senior Platoon Leadership courses.

West Chester University students may enroll in the **United States Marine Corps Platoon Leaders Class** as freshmen, sophomores, and juniors. This program is open to males and females and is offered on the West Chester University campus. All training is done during summer vacation, and reserve officer commission credits will be counted upon successful completion of military requirements and the successful completion of a University degree.

Graduate Studies

West Chester's graduate program, introduced in 1959, offers study leading to Master of Education, Master of Arts, Master of Science in Administration, Master of Business Administration, Master of Science, and Master of Music degrees. West Chester schedules its graduate courses in the late afternoon and evening during the fall and spring semesters. It is possible to pursue full- time graduate programs during the academic year and during summer sessions.

Administration

M.S.A. (Concentrations: Health Services, Leadership for Women, Long-Term Care, Psychology/Personnel, Public Administration, Social Work, Sport and Athletic Administration, Training and Development, Urban/Regional Planning, Individualized)

Cooperative degree with Clinical Chemistry

Biology

M.A. Biology

Business

M.B.A. (Concentrations: Accounting (approved but unavailable), Economics/Finance, General Business, Management, Management Information Systems, Small Business Management)

Chemistry

M.A. Physical Science (Concentration: Chemistry)

M.Ed. Chemistry

M.S. Chemistry

M.S. Clinical Chemistry

Childhood Studies and Reading

M.Ed. Elementary Education (Concentrations: Bilingual Education, Children's Literature, Creative Teaching-Learning, Early Childhood Education, Elementary Education, Human Development, Language Arts, Mathematics, Reading, Science, Social Studies, Special Education)
Certification in Elementary Education
M.Ed. Reading
Reading Specialist Certification
Certificate of Advanced Graduate Study in Childhood Studies and Reading

Communicative Disorders

M.A. Speech Pathology

Counselor, Secondary, and Professional Education

M.Ed. Elementary Education Counseling
M.Ed. Secondary Education Counseling
M.S. Higher Education Counseling
M.S. Educational Research
Specialist I Certificate in Counseling (Elementary or Secondary)
M.Ed. Secondary Education
Courses in Environmental Education; Urban Education

Criminal Justice

M.S. Criminal Justice

English

M.A. English

Foreign Languages

M.A. French
M.A. Spanish
M.Ed. French
M.Ed. German
M.Ed. Latin
M.Ed. Spanish

Geography and Planning

M.A. Geography
M.S. Administration (Concentrations: Urban/Regional Planning, Leadership for Women)

Geology and Astronomy

M.A. Physical Science (Concentration: Earth Science)

Health

M.Ed. in Gerontology
M.Ed. Public Health
M.Ed. School Health
M.S. Environmental Health
M.S. Gerontology
M.S. Public Health
M.S. School Health
M.S. Administration (Concentration: Health Services, Long Term Care)
Certificate program in Gerontology

History

M.A. History
M.Ed. History

Instructional Media

M.Ed. Instructional Media Education
M.S. Instructional Media
Teaching Certification for Instructional Media Education

Mathematics and Computer Science

M.A. Mathematics (Concentrations: Pure Mathematics, Mathematics Education, Applied Computer Science)
M.Ed. Mathematics
M.S. Computer Science

Music

M.A. Music History
M.M. Accompanying
M.M. Keyboard Performance
M.M. Piano Pedagogy
M.M. Instrumental Performance
M.M. Music Education
M.M. Music Theory/Composition
M.M. Vocal/Choral Performance

Philosophy

M.A. Philosophy

Physical Education

M.S. Physical Education
M.S.A. (Concentration: Sport and Athletic Administration)

Physical Science (Interdepartmental)

M.A. Physical Science (Concentrations: Chemistry, Earth Science)

Political Science

M.S. Administration (Concentrations: Public Administration)

Psychology

M.A. Clinical Psychology
M.A. General Psychology
M.A. Industrial/ Organizational Psychology
M.A. Group Psychotherapy/Processes (Concentration: Psychodrama)
M.S.A. (Concentrations: Psychology/Personnel, Training and Development)

Public Administration

See Political Science

Social Work

M.S.A. (Concentration: Social Work)

Special Education

M.Ed. Special Education
Certification in Special Education

Teaching English as a Second Language

M.A. Teaching English as a Second Language

The following departments and interdisciplinary areas offer graduate courses, but no graduate degree. Art, Linguistics, Speech Communication and Theatre, Women's Studies

College Literature

College Literature is a national triannual refereed journal that bridges the college classroom and scholarly criticism. *College Literature* is devoted to a re-examination of what is and should be read and taught in the college and university classroom and to new ways of studying and teaching literature. Kostas Myrsiades of the English Department serves as editor.

Degree Requirements

REQUIREMENTS FOR THE BACCALAUREATE DEGREE

1. Satisfactory completion of a minimum of 128 semester hours at or above the 100-level, distributed as shown in the curriculum for the student's major field.
2. Achievement of a cumulative grade point average of at least 2.00 (C) and an average of at least 2.00 (C) in the major field.
3. Attendance at West Chester University for at least 30 semester hours of the degree program, normally the final 30 semester hours of the degree program.
4. Fulfillment of any special requirements or program competencies which are particular to a department or a school.
5. Fulfillment of all financial obligations to the University, including payment of the graduation fee, and of all other obligations, including the return of University properties.
6. Compliance with all academic requests including filing an application for graduation in the Office of the Registrar.

NOTES:

Students are permitted to pursue dual majors under the same degree with the concurrence of the participating departments.

Students who do not demonstrate basic proficiency in English or mathematics may be required to take 000-level courses as prerequisites of their degree programs.

UNI 101 The Student and the University

A one-credit course in college adjustment and exploration is taken as part of the New Student Orientation Program. Graded on a pass/fail basis, this course is required of all new freshmen and of all new transfer students who transfer fewer than 33 credits.

The General Education Requirements Common to All Baccalaureate Curricula

A broad education emphasizes the enhancement of the basic skills in English and mathematics as well as encompasses experiences in the humanities, the social and natural sciences and the arts. At the same time, it must be versatile because of the many new courses and areas of study that are constantly becoming available.

West Chester University's curriculum has been planned to allow freedom of choice for the student within educationally sound limits.

The general education requirements which constitute the liberal arts core apply to all freshmen entering West Chester in June, 1980 and thereafter.

All students should consult with their advisors and their departmental handbooks.

BACCALAUREATE GENERAL EDUCATION REQUIREMENTS

Policy on General Education Requirements

Students, both those matriculating as freshmen and transfer students, who have not completed the basic skills requirements in mathematics and English by the time they have earned 64 credits toward graduation must have the permission of the dean of their school or college (or his or her designee) to schedule additional courses. This policy applies to students entering in the fall of 1988 and thereafter.

I. Basic Skills — 11 semester hours

A. English Composition — 6 semester hours
ENG 120, ENG 121
Policy for placement in English composition courses: Placement in the appropriate composition course is determined by the Composition Placement Evaluation (CPE) administered by the English Department. The Composition Placement Evaluation takes into consideration grades in high school writing courses, admissions test results, and, if necessary, the results of a writing sample. If the result of the CPE is below the minimum acceptable level, a student must take and pass ENG 020 with a grade of C− or better before he or she enrolls in ENG 120. If the result of the CPE is sufficiently high, a student may be exempt from ENG 120 and may register for ENG 121 immediately. ENG 130 and 131 are comparable to ENG 120 and 121 for international students only.

B. Mathematics — 3 semester hours
College level mathematics course designated by the student's major department.
Policy for placement in mathematics: Placement in the appropriate mathematics course is determined by the student's math SAT score or performance on the Mathematics Placement Examination administered by the Department of Mathematical Sciences. All entering freshmen with math SAT scores below 450 must complete MAT 000 with a grade of C− or better before they enroll in any other mathematics course. Students in this category may take the Mathematics Placement Examination during their summer orientation program. If they pass it, they are exempt from MAT 000.

C. **Physical Education Activity** — 2 semester hours
Students may, for medical reasons, petition to substitute a health course for the physical activity requirement. Veterans are exempt from the physical activity requirement.

II. **Distributive Requirements** (Approved courses are noted with a ★ in the course listings and below.)**

A. **Science:** One approved course in three of the following areas: — 9 semester hours
Biology — BIO 100 or BIO 110
Chemistry — CHE 100 or CHE 102 or CHE 103-104 or CHE 105-106
Computer Science — CSC 101 or CSC 115 or CSC 141
Earth Science — ESS 101 or ESS 111
Physics — PHY 100 or PHY 130-140 or PHY 170-180

B. **Behavioral and Social Sciences:** One approved course in each group plus a third course in a discipline not previously selected: — 9 semester hours
Group I
Anthropology — ANT 102 or ANT 103
Psychology — PSY 100
Sociology — SOC 200 or SOC 240
Group II
Economics — ECO 101 or ECO 111-112
Geography — GEO 101 or GEO 103
Government — PSC 100 or PSC 121 or PSC 213

C. **Humanities:** One approved course in each of the following areas: — 9 semester hours
Literature — LIT 165, CLS 165 or CLS 260-261
History — HIS 100 or HIS 101-102
Philosophy — PHI 101 or PHI 180

III. The Arts — 3 semester hours
Any courses in the following areas:
Art, Cinematography, Dance, Music, Photography, Theatre

IV. **Free Electives** — 9 semester hours
Free electives are completed at the choice of the student. They may not be used to satisfy major, core, cognate, general education (including) distributive requirements. NOTE: A student may not take an Interdisciplinary Course for Pass/Fail if this course is being used to satisfy

**Students may substitute an approved two-semester entry-level course marked with a † for a course marked with a ★. For example, HIS 101-102 may be substituted for HIS 100. Transfer students who have taken one half of a 6-credit foundation course in a discipline may fulfill the appropriate distributive requirement by taking the other half of this foundation course at West Chester.

the general education interdisciplinary requirement. Some programs may require a speech course. All these free electives must be at or above the 100-level.
All students are encouraged to complete these requirements in their first two years at West Chester.
Total: 50 semester hours

V. Writing Emphasis Courses
All students who enter with fewer than 40 credits must take at least three approved writing-emphasis courses at West Chester. Transfer students who enter with 40-70 credits must take two writing emphasis courses. Students who transfer more than 70 credits must take one writing emphasis course. Each writing emphasis course may simultaneously fulfill another degree requirement.

VI. Interdisciplinary Requirement
A. Freshmen who entered the University in fall 1985 or later must complete an approved interdisciplinary course. Transfer students who enter with 60 credits or more are not required to complete an interdisciplinary course.
B. For students who entered as freshmen between fall 1985 and spring 1988, an approved interdisciplinary course may be substituted for *any* course in the Distributive Requirements or in the arts in the General Education Requirements.

HOWEVER

For students who entered the University beginning with the 1988 fall semester, the process of meeting the interdisciplinary requirement has changed.
C. The interdisciplinary requirement can be fulfilled at one of two levels: the general education level or the upper level.
1. An approved general education interdisciplinary course (at the 100- or 200-level) may be substituted for any course in the Distributive Requirements or in the arts in the General Education Requirements.
2. An approved upper-level interdisciplinary course (at the 300- or 400-level) cannot be substituted for General Education Requirements.
D. English 121, Effective Writing II, is a prerequisite for all interdisciplinary requirement courses.
E. Approved interdisciplinary courses are indicated by a pound sign (#) in the departmental course listings and below.

NOTE: A course may simultaneously meet the interdisciplinary and culture cluster requirements.

Interdisciplinary Courses

AMS 200	American Civilization
AMS 210	Mass Media and Popular Culture
BIO 102	Humans and the Environment
CLS 201	Classical Mythology in the 20th Century
CLS 329	Gender and Peace
EFR 220	French Civilization (in English)
EGE 222	German Civilization (in English)
EGE 323	Austrian Civilization, 1848-1938
ERU 209	Soviet Russian Culture (in English)
ESP 319	Civilization of Spain (in English)
ESP 322	Latin-American Culture and Civilization (in English)
ESP 324	Puerto Rican Language and Culture
ESS 102	Humans and the Environment
GEO 204	Introduction to Urban Studies
GER 221	German Civilization (in German)
HEA 102	Humans and the Environment
HIS 302	Modern India
HIS 306	Modern China
HIS 308	An Introduction to the Islamic World
HIS 323	Austrian Civilization
HIS 329	Gender and Peace
IND 201	Unified Science I
LIN 330	Introduction to Meaning
LIT 270	Urbanism and Modern Imagination
MHL 201	Form and Style in the Arts
PHI 102	Introduction to Religious Studies
PHI 174	Principles of the Arts
PHI 330	Introduction to Meaning
PHI 370	Biomedical Ethics
PHI 405	Feminist Theory
PSC 204	Introduction to Urban Studies
PSC 213	International Relations
SCB 210	The Origin of Life and the Universe
SOC 349	Perspectives on Mental Illness
SSC 200	Human Behavior and Conflict Resolution
WOS 225	Women Today—An Introduction to Women's Studies
WOS 315	Third World Women: Tradition and Change
WOS 329	Gender and Peace
WOS 405	Feminist Theory

VII. Supplementary General Education Requirements
Students in some programs have additional general education or cognate requirements to fulfill in disciplines related to their major discipline. Students should consult with their major program advisor about the requirements which apply to them.

Foreign Language and Culture Requirements for Bachelor of Arts Degree Candidates

A. Candidates for the B.A. in the following departments are required to complete the second half of the intermediate year of a foreign language:
Art
Biology
English
Foreign Languages (in a second foreign language)
Liberal Studies
Mathematics
Physics

(New freshmen interested in other B.A. degree programs are urged to consult with their departmental advisors regarding the foreign language requirements of the particular programs.)
Students may satisfy the foreign language requirement by presenting evidence of preparation equivalent to the 202 level either by certificate or by examination. Students who are not qualified to take the 202 course prepare themselves by taking the elementary (101-102) and/or intermediate (201) course or courses.

B. Candidates for the B.A. in other departments have the options of demonstrating foreign language competence through the intermediate level or else demonstrating foreign language competence through the Elementary II (102) level and by taking three courses dealing with the related foreign cultural area. Questions regarding the for-

eign language requirement in these other departments should be addressed to their appropriate department chairpersons. The Foreign Language plus Foreign Cultures option is open to freshmen who entered after May 1980.

C. Attention is called to the policies regarding taking courses out of sequence, page 35. Testing and placement are handled by the Department of Foreign Languages.

Foreign Cultures Clusters

Students selecting the Foreign Language plus Foreign Culture option must take three courses in three separate disciplines. All three courses must be selected from the cluster of courses pertaining to the Foreign Culture Area of the language studied. Approved courses are listed below. Courses taken for foreign cultures credit may not be taken Pass/Fail.

I. Classical Civilization (Latin or Greek)
Approved courses: ARH 382, ARH 485, HIS 318, HIS 319, HIS 348, PHI 270

II. France and Francophone Area (French)
Approved courses: ARH 383, ARH 385, GEO 303, HIS 420, HIS 427, HIS 435, PHI 415, PSC 342

III. Germany (German)
Approved courses: EGE 222, GEO 303, HIS 330, HIS 420, HIS 423, HIS 435, PHI 272, PHI 273, PSC 342

IV. Italy (Italian)
Approved courses: ARH 384, HIS 426, PSC 342

V. Latin America (Spanish or Portuguese)
Approved courses: ANT 322, ANT 362, ESP 319, GEO 302, HIS 315, HIS 316, HIS 317, PSC 340, ESP 222

VI. Russia and Eastern Europe (Russian or an Eastern European Language)
Approved courses: ARH 405, ERU 209, GEO 304, HIS 324, HIS 425, PSC 246

Note: A course may simultaneously meet the interdisciplinary and culture cluster requirements.

REQUIREMENTS FOR THE DEGREE OF ASSOCIATE OF ARTS OR ASSOCIATE OF SCIENCE

Students in the Associate Degree Programs must fulfill the following requirements:

1. Satisfactory completion of a minimum of 64 semester hours at or above the 100-level.
2. Completion of the Associate of Arts or Associate of Science General Education Component.
3. Completion of an approved area of concentration.
4. Achievement of a cumulative grade point average of at least 2.00 (C) and an average of at least 2.00 (C) in the area of concentration.
5. Attendance at West Chester University for at least 30 semester hours, normally the last 30 hours, of the degree program.
6. Fulfillment of any special requirements or program competencies which are particular to a department or school.
7. Fulfillment of all financial obligations to the University, including payment of the graduation fee; and of all other obligations, including the return of University properties.
8. Compliance with all academic requests including filing and application for graduation in the Office of the Registrar.

ASSOCIATE OF ARTS IN LIBERAL STUDIES

West Chester University offers an Associate of Arts in liberal studies which can be completed in two years of full-time study or the appropriate equivalent of part-time study.

Students currently enrolled in the University who wish to obtain an A.A. must declare their intention prior to the completion of 50 semester hours.

I. A.A. General Education Component 38 semester hours
- A. THE PAST 6 semester hours
  One course in each of the following disciplines:
  Anthropology — ANT 102 or 103
  History — HIS 100 or HIS 101 and 102
- B. THE PRESENT 6 semester hours
  One course in two of the following disciplines:
  Economics — ECO 101 or ECO 111 and 112
  Political Science/Planning — PSC 100 or PSC 121 or PSC 213
  Psychology — PSY 100
  Sociology — SOC 200 or SOC 240
- C. THE IDEAS OF CIVILIZATION 6 semester hours
  One course in each of the following disciplines:
  Literature — LIT 165 or CLS 222 or CLS 260 and 261
  Philosophy — PHI 101 or 180
- D. THE SCIENCES 6 semester hours
  One course in two of the following disciplines:
  Biology — BIO 100 or BIO 110
  Chemistry — CHE 100 or CHE 102 or CHE 103 and 104 or CHE 105 and 106
  Computer Science — CSC 101 or CSC 115 or CSC 141
  Earth Science (Geology or Astronomy) — ESS 101 or ESS 111
  Physics — PHY 100 or PHY 130 and 140 or PHY 170 and 180
- E. THE ARTS 6 semester hours
  One course in two of the following disciplines:
  Art, Cinematography, Dance, Music, Photography, Theater.
- F. SKILLS AREA
  English Composition[1] 3 semester hours
  Mathematics[1] 3 semester hours
  Health or Physical Education 2 semester hours

II. Approved A.A. area of concentration 15-21 hours

III. Free electives to complete 64 semester hours

Approved Associate of Arts Concentrations

An Associate of Arts concentration generally consists of the same sequence of courses as a minor in the subject when the minor has been approved as a concentration. Please see the individual program listings for specifics.

The areas of concentrations approved for the degree of Associate of Arts in Liberal Studies include the following:

Anthropology
Anthropology/Sociology
Art History
Astronomy
Criminal Justice
Developmental Disabilities
Earth Science
Film Criticism
Political Science
Political Science/Public Administration
Psychological Services
Psychology
Religious Studies
Geology
History
Holocaust Studies
Literature
Music
Peace and Conflict Studies
Philosophy
Planning (Geography)
Sociology
Speech Communication
Studio Arts
Theatre
Women's Studies
Writing

Students may also develop an individualized concentration of 15 to 21 semester hours of courses selected under advisement. Further information about A.A. in liberal studies is available from the Office of Liberal Studies in New Main.

Free Electives

In addition to the requirements in the area of concentration, candidates for the degree of Associate of Arts in liberal studies have the opportunity to take two or three courses of their own choosing. Students who contemplate continuing in a four-year program requiring competence in a foreign language are advised to select courses which will help them achieve this competence.

ASSOCIATE OF SCIENCE

West Chester University offers the Associate of Science degree in two specialized fields: Respiratory Therapy and Applied Media Technology. For detailed information on these programs, see the Department of Health (pages 106-109) and the Department of Instructional Media (pages 100-101).

[1]On the basis of proficiency or placement tests, some students may be required to take 000-level courses in English or mathematics as prerequisites of their degree programs.

Academic Policies and Procedures

Classification by University Program

Degree Candidates — all undergraduates admitted to a degree program or to the undeclared major by the Office of Admissions or through approved internal transfer recorded in the Office of the Registrar.

Non-degree Students — students permitted to enroll for course work toward professional development, personal growth or certification. Recent high school graduates (two years) are required to meet the admission standards of the University. Non-degree students may attempt a maximum of 30 credits. Upon reaching 30 credits, students must have a 2.00 GPA to be eligible for admission to a degree program or to request permission to enroll in a professional development status.

Academic Classification

The student's classification is determined by the number of semester hours or credit *earned* as follows:

Freshman	0-31 semester hours of credit (inclusive)
Sophomore	32-63 semester hours of credit (inclusive)
Junior	64-95 semester hours of credit (inclusive)
Senior	96 or more semester hours of credit

Note: The cumulative grade point average is computed from the total number of credits *attempted*. (See "Cumulative Grade Point Average" page 37.)

Academic Advising

Under West Chester's advising program, all students have faculty advisors, appointed through their major departments, who counsel them on academic matters throughout their undergraduate years. Students who have not yet declared a major are advised by the Academic Advising Center in Lawrence Center. The ultimate responsibility for satisfying all graduation requirements is the student's.

Second Degrees

An individual may pursue a second degree at West Chester University after earning the first degree either at West Chester or some other institution. Such an individual must apply for admission through the Office of Admissions as a transfer student and earn at least 30 hours on campus beyond the requirements of the initial baccalaureate program. All requirements for the curriculum in which the second degree is earned must be satisfied. A given course required in both the degree programs may not be repeated for the second degree.

Dual Degrees

West Chester does not permit a student to pursue two degrees simultaneously except in the case of the Associate of Science degrees and in the five-year program in engineering in cooperation with Pennsylvania State University.

Double Major

A student may select two majors within the same degree. A double major requires that the requirements for both majors be fully met. The student should consult regularly with advisors from both programs.

Minor Fields of Study

Students may apply for transcript recognition if they complete an approved minor field of study. To receive such recognition, the student must complete 15 to 21 hours of courses selected in consultation with the minor program advisor. Students who have enough flexibility in their major curriculum to fulfill the requirements of a minor must fill out and submit a Minor Selection Application to the Office of the Registrar. To enroll in a minor field of study, students must have the permission of both their major and their proposed minor departments.

Minors available at West Chester University include the following:

Accounting
American Studies
Anthropology
Anthropology/Sociology
Art History
Astronomy

Athletic Coaching
Biology
Comparative Literature
Criminal Justice
Dance (Educ.—Therapeutic)
Dance (Performance)
Developmental Disabilities
Early Childhood Education
Earth Sciences
Economics
Elementary Education
Ethnic Studies
Film Criticism
French
Geography
Geography and Planning
Geology
German
Health Science
History
Holocaust Studies
Instructional Media
Italian
Jazz Studies
Journalism
Latin
Latin American Studies
Linguistics
Literature
Mathematics
Music
Organizational and Technical Writing
Peace and Conflict Studies
Philosophy
Physics
Political Science
Public Administration
Psychology
Religious Studies
Russian
Russian Studies
Social Work
Sociology
Spanish
Speech Communication
Studio Art
Theatre
Translation
Women's Studies
Writing

Specific course requirements may be obtained from the minor program advisors.

Changing Majors

A student wishing to transfer from one program of study at the University to another program must file a Change of Curriculum form in the Office of the Registrar. The student must meet the standards for admission into the desired program and must obtain written permission from the department involved. Any courses which were initially accepted for transfer credit from another college are subject to re-evaluation by the department to which the student transfers internally.

Student Class Load

A full-time class load ranges from 12 to 18 semester hours of credit. Credits attempted or earned through the process of Credit by Examination are not counted in the Student Class Load.

Overloads

Students wishing to carry more than 18 credit hours per semester must secure permission. Permission will not be granted for more than 24 hours. The normal student load for the fall and spring semesters is 16 hours per semester. The normal student load for summer sessions is three hours for the pre session, six hours for the regular session, and three hours for the post session. A student will not be allowed to enroll in more than 15 hours in any one summer nor be allowed to carry more than one additional course per session.

A student should not seek permission to carry an overload if his or her cumulative average is below 2.75.

Permission for an overload is granted by the chairperson of the department in which the student is majoring and the associate vice president for academic affairs.

Adding a Course

Students may add a course by filing a schedule change form in the Office of the Registrar during the Drop/Add Period. Students will not be permitted to add a course after the end of the Add Period.

Dropping a Course

During the first week of a semester, a student may drop a course, thereby receiving no grade, by filing a schedule change form in the Office of the Registrar during the Drop/Add Period.

A grade of "W" will be entered on the academic record of any student who drops a course *between the end of the first week and before the end of the fifth class week* or the equivalent in summer sessions.

Students may withdraw from a course *between the end of the fifth class week and the end of the tenth class week* and receive a grade of WP or WF from their instructor, only if they have a compelling special reason or emergency.

A student who is doing passing work at the time of approved withdrawal receives a WP, which is not treated as a grade. A student who is failing receives a WF, computed as an F.

After the tenth week of classes, students will receive whatever grade the professor assigns (including WF, WP) but are not entitled to selectively withdraw from particular classes.

STUDENTS WHO FAIL TO DROP A COURSE OFFICIALLY CAN EXPECT TO RECEIVE A GRADE OF "F" FOR THE COURSE.

Withdrawal from the University

Students wishing to withdraw from the University must go to the Office of the Registrar and follow the prescribed procedures. If illness or some other emergency interrupts the student's University work, he or she must notify the Office of the Registrar at once. Unless a student withdraws officially, F grades will be recorded for unfinished courses.

Taking Courses Out of Sequence

Students may not enroll for credit in a more elementary course in a sequence after having satisfactorily passed a more advanced course in that sequence. For example, a student may not enroll for credit in French 101 after having satisfactorily passed French 201.

Similarly, students who enroll in a course which requires less proficiency than placement or proficiency tests indicate they possess may be denied credit towards graduation. Native speakers of a foreign language may not receive credit towards graduation for the elementary course in that foreign language.

Pass-Fail Policy

1. All degree students who are sophomores, juniors, or seniors with a cumulative G.P.A. of at least 2.00 are eligible.
2. The pass/fail privilege is limited to one course per semester; only free

electives may be taken on a pass/fail basis. Free electives are completed at the choice of the student. They may not be used to satisfy major, core, cognate, general education (including) distributive requirements.
NOTE: A student may not take an Interdisciplinary Course for Pass/Fail if this course is being used to satisfy the general education interdisciplinary requirement.

3. A grade of *Pass* carries credit value, but does not affect the cumulative grade point average.
4. A grade of *Fail* is computed into the cumulative grade point average.
5. After contracting for Pass/Fail, the student may not request or accept any grade other than a "P" or "F".
6. This process must be completed by the end of the *eighth* week of the semester or the equivalent in summer school. Forms are available in the Office of the Registrar.

Auditing Privileges

Anyone may attend the University for the sole purpose of auditing one or more courses by obtaining approval from the Office of the Registrar and paying the regular fee. Full-time students have the privilege of auditing one course per semester without charge, provided they obtain approval from the course instructor and the course does not create an overload situation. If an overload results, students are assessed the per credit rate for each credit in excess of 18. Part-time students may audit one course per semester, provided they obtain the instructor's approval, enroll in the course through the Office of the Registrar, and pay the regular course fee.

Credit is never given to auditors. After the course has commenced, the auditor status may not be changed. The grade of Audit (AU) is recorded on the student's transcript.

Credit by Examination

Forms to register for credit by examination are available from the Office of the Registrar. A fee of $25 is charged for each course. Credit by examination is a privilege subject to the following conditions:

1. Application occurs during the Drop/Add Period.
2. The student has a cumulative G.P.A. of at least 2.00.
3. The student demonstrates evidence of satisfactory academic background for the course.
4. The student has not already completed a more advanced course which pre-supposes knowledge gained in the course. For example, credit by examination cannot be given for FRE 101 after the student passed FRE 102.
5. Credits attempted or earned through the process of credit by examination are not counted in the student class load.

Note: Students who have taken a course but have not achieved a satisfactory grade may not apply for credit by examination for the same course.

Independent Study

Many departments offer an Independent Study course for students with demonstrated ability and special interests. This course is appropriate when a student has a specialized and compelling academic interest that cannot be pursued within the framework of a regular course. The Independent Study Form is available in the Office of the Registrar.

Individualized Instruction

Individualized instruction is the teaching of a regular catalog course to a single student. Individualized instruction is offered only when the University has cancelled or failed to offer a course according to schedule. The Individualized Instruction Form is available in the Office of the Registrar.

Graduate Credit

An undergraduate who is in the final semester of work for the bachelor's degree and has an overall grade point average of at least 3.0 may, with the permission of the dean of graduate studies and sponsored research, enroll in up to six credits of graduate level course work. Credits earned may be applied to a master's degree program but not toward the bachelor's degree. The Graduate Credit Form is available in the Office of the Registrar.

Student Absence (Cut) Policy

The student absence policy is a graduated policy providing leniency to students (primarily juniors and seniors) enrolled in 300- and 400-level courses and restrictions to freshmen and sophomores in 000-, 100- and 200-level courses. The absence policy holds that satisfactory proficiency in course work is the student's responsibility, as is class attendance, but recognizes the importance of the professor in the educational process.

The policy is administered at the student-faculty level.

A student enrolled in a 000-level course is not permitted any unexcused absences.

A student enrolled in a 100-level course is permitted to be absent three times or the equivalent for courses that meet less than three times a week.

A student enrolled in a 200-level course is permitted to be absent six times or the equivalent for courses that meet less than three times a week.

A student enrolled in a 300-level course is permitted to be absent nine times or the equivalent for courses that meet less than three times a week.

A student enrolled in a 400-level course has no specific restrictions. This privilege is given to upperclassmen because of the greater amount of individual research which is expected at the advanced level. An upperclassman taking a lower-level course must follow the absence policy of that course.

In the event that the student exceeds the number of cuts allowed for a course, the professor is permitted to lower the final letter grade for the course by one letter grade, or ask the student to withdraw from the course and assign a WP or WF.

This policy does not deal with special circumstances such as preparation and performance in music, theater, athletics and laboratories or professional type duties such as practice teaching. Absences from these courses and duties must be considered on an individual basis by the department and professor responsible for the actual event or duty.

On days of an announced quiz, test, or examination, no absences are permitted at any course level.

Student-Athlete Absence Policy

Responsibility for meeting academic requirements rests with the student athlete. Initially the student is expected, where possible, to schedule classes on days and at hours that do not conflict with athletic schedules. However, in the event that inter-

collegiate sports unavoidably necessitate missing some classes, the student-athlete *must* make the following preparations and arrangements with professors to be excused from class for competition.

1. Student-athletes are expected to notify their professors *as soon as they know* they will be missing class due to an athletic contest.
   a. In most cases this can be done as soon as the student-athlete receives the game schedule and departure times for away games and the times for home games are identified. The only exception is for rescheduled games. In that event the student-athlete is required to notify the professor of class absence as soon as the game has been rescheduled.
   b. This communication is to be made *in writing* by using the courtesy absence form provided in the Athletic Department Office.
2. Athletes are expected to complete the work required for each class and turn in assignments due on game days *prior* to their due dates unless other arrangements are made with the professor.
3. If a scheduled contest is postponed or cancelled, the student is expected to go to class.
4. If a test is scheduled on a game day, the student-athlete will make arrangements with the professor to make up the test.
5. Athletes are not excused from classes for practice or training room treatment on non-game days.
6. If a student-athlete reaches or exceeds the permissible number of absences under the University "Student Absence Policy" for any course while representing the University in athletic contests, then he or she will not be permitted to have additional absences for any other reasons, except in cases of extreme emergencies.
7. If the student-athletes follow these procedures, it is hoped that their professors will cooperate with the Athletic Department and its programs and permit absences required by competitive athletic events.

Exemption from Final Examinations

Students who have attained an A or B prior to the finals, have completed all other course requirements, and have the instructors' permission may waive final examinations. This privilege is subject to several reservations.

1. Any unit examinations given during the final examination period are not subject to this policy.
2. Academic departments as well as faculty may adopt a policy excluding the final examination exemption for certain courses.
3. Mutual agreement between the instructor and the student to waive the final examination should be determined during the week prior to the beginning of the examination period.

The course grade will be the A or B earned exclusive of a final examination grade.

Grade Reports

After each semester, a report of each student's semester grades is mailed to the student at the home address.

Grading System

Grade	*Quality Points*	*Percentage Equivalents*	*Interpretation*
A+	4.33	97 or above	Excellent
A	4.00	93-96	
A—	3.67	90-92	
B+	3.33	87-89	Superior
B	3.00	83-86	
B—	2.67	80-82	
C+	2.33	77-79	Average
C	2.00	73-76	
C—	1.67	70-72	
D+	1.33	67-69	Below Average
D	1.00	63-66	
D—	0.67	60-62	
F	0.	59 or lower	Failure
NG			No Grade
W			Withdrawal
WF	0.	59 or lower	Withdrawal Failing
WP			Withdrawal Passing
Y			Administrative Withdrawal
AU			Audit

NG (No Grade): given when a student fails to complete course requirements by the end of a semester. See "Grade Changes."

W (Withdrawal): given when a student withdraws from a course between the end of the first and the end of the fifth class week of the semester or the equivalent in Summer Sessions (effective September 1980).

WP and WF: See "Dropping a Course," page 35.

Y (Administrative Withdrawal): given under appeal when there is documentation that the student never, in fact, attended class.

Cumulative Grade Point Average

The cumulative grade point average (G.P.A.), sometimes called the cumulative index, is determined by dividing the total quality points *earned* by the total credit hours *attempted*. The following example, based on a single semester, illustrates:

	Semester Hours	Grade	Quality Points for Grade		Quality Points for Course
1st subject	4	A	4	4 x 4 =	16
2nd subject	3	B	3	3 x 3 =	9
3rd subject	3	C	2	2 x 3 =	6
4th subject	3	D	1	1 x 3 =	3
5th subject	2	F	0	0 x 2 =	0
	15				34

34 divided by 15 equals a G.P.A. of 2.27.

All grades received during a student's enrollment (except the grades of WP, P and NG and except when a second attempt produces a higher course grade) are included in the cumulative G.P.A. Grades from other colleges are excluded.

If a student repeats a course, in an effort to improve an F, D, C, or B grade, he or she must file a Repeat a Course Form in the Office of the Registrar.

Grade Changes

A grade awarded other than "NG" is final. Final grades can be changed only when there is a bona fide clerical error. ANY INACCURATE FINAL GRADE MUST BE REPORTED IN WRITING TO THE PROFESSOR BEFORE THE END OF THE FOURTH CALENDAR WEEK OF THE FOLLOWING SEMESTER.

NG (No Grade): given when a student fails to complete course requirements by the end of a semester. If the student did not complete course requirements because of a valid reason, such as a serious illness or death in the family, the student may be granted permission by the professor to complete the requirement within the first nine weeks of the next semester.

A GRADE OF NG IS CHANGED TO AN F AUTOMATICALLY IF THE REQUIREMENTS HAVE NOT BEEN COMPLETED BY THE END OF THE NINTH WEEK OF THE FOLLOWING

SEMESTER. (The instructor must file a change of an NG grade in the Office of the Registrar by the middle of the tenth week of the semester.)

A graduating senior has only 30 calendar days after the end of the term in which he or she intends to graduate to complete all degree requirements, including the removal of NG.

Dean's List

The names of students who complete 12 or more hours and achieve a semester G.P.A. of 3.67 or better are placed on the Dean's List, which is published at the close of each semester. Students who do not want to have their names published should notify the Office of the Registrar at the start of the semester.

Maintenance of Academic Standards: Probation and Dismissal

A student's scholastic standing at the University is indicated by his or her cumulative grade point average (G.P.A.). Three categories of academic standing have been established: good academic standing, probation, and dismissal. A student remains in good academic standing as long as he or she maintains a minimum cumulative G.P.A. of 2.00 for all work taken at the University. Probation and dismissal are actions taken by the University when a student's G.P.A. falls below an acceptable level at the end of a semester or a summer term.

Conditions of Probation. Probation is defined as a trial period during which a student whose cumulative average has fallen below acceptable standards must bring his or her average up to those standards or be dismissed from the University. The following rules govern the category of probation:

A. A student shall be placed on probation if he or she has attempted
   * more than 9 and up to 18 semester hours of work with a cumulative G.P.A. of less than 2.00.
   * more than 18 but fewer than 48 semester hours of work with a cumulative G.P.A. from 1.00 to less than 2.00.
   * at least 48 but fewer than 64 semester hours of work with a cumulative G.P.A. from 1.40 to less than 2.00.
   * at least 64 or more semester hours of work with a cumulative G.P.A. from 1.70 to less than 2.00.

B. Probation shall commence immediately at the end of the semester in which the cumulative G.P.A. falls into the range described. A notice of probation shall be printed on the student's transcript, and the student shall be notified by the University that he or she is in danger of dismissal. A student who receives notice of being placed on probation shall *immediately* seek advising, tutoring, and instruction in effective study habits and efficient use of time — in short, take every possible measure to improve the quality of his or her academic performance.

C. A student will be allowed to continue on probation for *no more than 30 semester hours of work* after being placed on probation. If the G.P.A. has not reached an acceptable level by that time, the student will be dismissed from the University. A student is removed from probation when the cumulative G.P.A. rises to 2.00 or above.

D. Those students who entered the University for the first time beginning with the 1989 fall semester and who have been placed on probation a second time will be allowed to continue on probation for no more than 15 semester hours of work after being placed on that second probation. If the GPA has not reached an acceptable level by that time, the student will be dismissed from the University. Thus, a student may be on probation no more than twice and placement on probation for a third time will result in immediate dismissal.

NOTE: This does *not* prevent individual departments from requiring an average higher than 2.00 as a condition of acceptance or retention.

Dismissal from the University.

A. A student shall be *dismissed* from the University if he or she has attempted
   * more than 18 but fewer than 48 semester hours of work with a cumulative G.P.A. of less than 1.00.
   * at least 48 but fewer than 64 semester hours of work with a cumulative G.P.A. of less than 1.40, whether he or she has previously been placed on probation or not.
   * at least 64 or more semester hours of work with a cumulative G.P.A. of less than 1.70, whether he or she has previously been placed on probation or not.

NOTE: A student shall also be dismissed if he or she fails to meet the standards set under Paragraph C above.

B. A student may petition for an exception to a dismissal action. Petitions are available from the associate vice president for academic affairs.

C. Nothing in this policy shall be taken to preclude the dismissal of students for violations of other University policies, in accordance with the provisions of those policies.

Readmission of Dismissed Students.

A. A student dismissed from the University may not take course work at the University until he or she applies and is considered for readmission by the University. No student will be considered for readmission earlier than one full calendar year after the time of dismissal.

B. Students readmitted to the University *must* maintain a full 2.00 G.P.A. for *each semester* of work following readmission, and after the completion of no more than 48 semester hours (or prior to graduation, whichever comes first), must obtain an overall cumulative G.P.A. of 2.00 for all work taken at the University. A student who fails to meet this standard shall be dismissed from the University a second time and is not eligible for future readmission.

Cumulative Grade Point Average Required for Graduation.

A cumulative G.P.A. of 2.00 is required for graduation from West Chester University. Specific programs, in accordance with University procedures, may set other higher requirements.

Room Reservation Policy for Reinstated Students

Those students living in University dormitories who are in academic difficulty at the close of the spring semester should consult with the housing office as to their eligibility for continued housing on campus.

Repeating Courses

Students may repeat college-level courses to improve a grade of F, D, C, or B (not A). Remedial courses (000-level) may be repeated as well. However, credits for remedial courses do not count towards graduation, but grades are computed in the cumulative grade point average. Students must pass the remedial basic skills courses (English and mathematics) with a C− or better before enrolling in a more advanced course in the respective discipline. Students enrolled in the basic skills remedial courses who do not pass with a C− or better after three attempts (within the guidelines of the repeat policy) will be dismissed from the University. Students who fail either remedial or college-level courses may not repeat those courses at another institution; college courses repeated at another institution will not count towards a West Chester degree.

Beginning with the 1985 fall semester, no student may use the repeat policy option more than five times, nor may a student repeat a single course more than twice. A student may file a "Repeat Form" only once per course. Students who repeat a course more often than the policy permits will not earn additional credits in such a course towards their degree, and those credits will be subtracted at the time of final clearance for graduation.

The process for repeating courses is as follows. The first time a student completes a course for a grade it is considered the first attempt. The second time a student completes a course for a grade it is considered the second attempt and the first repeat. The third time a student completes a course for a grade it is considered the third attempt and is the second repeat. The first time a course is repeated, only the second grade is computed into the G.P.A. For this to occur, students must file a "Repeat Form" in the Office of the Registrar during the semester in which they complete the second attempt. If the course is repeated a second time, both the second and third grades are computed into the G.P.A. Students who complete a course with a fourth attempt or more are in violation of the Repeat Policy.

Taking Courses Off Campus—Transient Student Status

West Chester University students who wish to enroll at another institution and have the credits count towards a West Chester degree must fill out and turn in a Permission to Take Courses Off Campus Form in the Office of the Registrar prior to enrolling at the other institution. Grades received in courses taken at other institutions are not calculated into the West Chester cumulative grade point average; only the credits may be transferred. Students who fail a course at West Chester may not repeat the course at another institution and have the credits count towards a West Chester degree.

In case of doubt as to which West Chester course is equivalent to the course to be taken elsewhere, the student should consult with the chairperson of the West Chester department offering the course or consult the transfer credit analyst in the Office of the Registrar.

Transfer of Credit

Credit may be granted for equivalent courses completed in accredited institutions of higher education. Credit for work completed at an unaccredited institution may be granted upon the recommendation of the student's major department in consultation with the school or college dean and transfer credit analyst. (See also Admissions.)

Effective for students who entered the University after September 1973, D grades are accepted for transfer if the credit is for equivalent courses within the framework of general requirements or free electives, provided the transferred course does not satisfy a major field requirement as well.

D grades considered for transfer for a major program requirement are treated in the same manner as the major department treats D grades earned at West Chester; that is, the student's major department may require the course to be repeated.

If the student is required to repeat a course in which a D was obtained, the course originally considered for transfer will not be accepted for any type of credit.

Likewise, if a student changes his or her major, D grades originally approved for transfer will be re-evaluated by the new major department.

IN ORDER TO RECEIVE FULL CREDIT FOR COURSES TAKEN ELSEWHERE AND FOR PROFICIENCIES DEMONSTRATED ON ADVANCED PLACEMENT OR CLEP EXAMINATIONS, THE TRANSFER STUDENT SHOULD HAVE THIS WORK EVALUATED PRIOR TO ENROLLING IN ANY POTENTIALLY EQUIVALENT COURSE AT WEST CHESTER.

Policy on Correspondence Courses

The University does not allow credit for courses taken through correspondence.

Advanced Placement Program

Courses taken under the Advanced Placement Program offered by the College Entrance Examination Board may be applied toward advanced placement in the University and/or toward credit requirements for graduation. The University recognizes the grade of 3.0 or above as acceptable.

College Level Examination Program (CLEP)

West Chester University encourages the non-traditional student to use CLEP subject examination especially if he or she has not yet applied for admission to West Chester University. While a non-traditional student may utilize CLEP exams after gaining admission to WCU, the student is urged to examine carefully the merits of the credit-by-examination option for individual courses offered by the University. Traditional students (those who are admitted immediately after high school) should take advantage of advanced placement or credit-by-examination options available at West Chester University.

West Chester University accepts SUBJECT Examinations in which the score is greater than the 50th percentile. Course credit is given only where the Subject Examination can be applied to specific courses offered, most commonly in the general requirements program or in free electives. Those interested should become familiar with the subject areas included in such programs of general study. Courses are accepted as degree credit only; while no grade is recorded, a specific number of credit hours is recorded.

West Chester does NOT accept the General Examination of CLEP.

Requirements for Graduation

A student is recommended for graduation upon the satisfactory completion of a minimum of 128 semester hours and upon fulfillment of all categories of the requirements for his/her degree. A minimum cumulative G.P.A. of 2.00 (C) is required for graduation. Degree requirements are detailed under the heading of the subject field. See also "Requirements for the Baccalaureate Degree." A student must file for graduation no later than the beginning of the semester in which he or she will complete the requirements.

Any senior who does not complete all degree requirements within 30 calendar days of the end of the term in which he or she intends to graduate must pay the diploma fee again before an updated diploma will be issued. Such a student, however, does have the right to request a letter from the University confirming his or her graduation after all requirements have been satisfactorily completed.

Resident Credit Requirement

To qualify for graduation, a student must take at least 30 semester hours of credit at West Chester. Normally the student will take the last 30 semester hours at West Chester.

All students are urged to review their records of progress towards graduation with their advisor and to file for graduation *two semesters* prior to the date of graduation.

Required Notice of Intention to Graduate

Students intending to graduate in May or August *must* come to the Office of the Registrar and give notice of intention to graduate no later than February 1. August graduates may participate in the May Commencement exercises if they file their notices of intention to graduate by February 1. Students intending to graduate in December must give such notice no later than October 1. The baccalaureate degree will not be granted unless this requirement is met.

After submitting this notice, the student will receive a cap-and-gown order form and a bill for the graduation fee. He or she will also specify how his or her name should be shown on the diploma and commencement program. *Unless the deadline is met, it will be impossible for the University to order a diploma, place the name on the forthcoming Commencement program or have the transcript reflect the appropriate date of graduation.*

Graduation Honors

Graduation honors are awarded as follows:

	Cumulative G.P.A.
cum laude	3.25 — 3.49
magna cum laude	3.50 — 3.74
summa cum laude	3.75 — 4.00

The Honors List for Commencement is based upon the mid-semester non-final grade point average. Those who do not attain honors distinctions until the end of their final semester will have recognition of their achievement on their transcripts, where all honors distinctions are recorded.

TO BE ELIGIBLE FOR HONORS DISTINCTIONS, TRANSFER STUDENTS MUST HAVE COMPLETED A MINIMUM OF 64 SEMESTER HOURS AT WEST CHESTER.

Transcripts

Requests for official transcripts are made by writing to the Office of the Registrar, Elsie O. Bull Center. The fee is $2 for each transcript. Checks, payable to West Chester University, must accompany the request.

Directory Information — Rights to Privacy Act of 1974

West Chester University from time to time makes public certain kinds of information about students, such as the names of those who receive scholarships, who hold offices, or who are members of athletic teams. Various kinds of campus directories are published throughout the year to help members of the University community locate and communicate with each other. The commencement programs publish the names of those who have received degrees during the year.

The Family Educational Rights and Privacy Act of 1974 defines the term "directory information" to include the following categories of information: the student's name, address, telephone number, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, date of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student. The University will limit information which is made public to categories such as these but will not necessarily publish all such information in every listing.

Undergraduate students who *do not wish* to have any or all of such "directory information" published without their prior consent must file notice in the Office of the Registrar. Graduate students must file notice in the Office of Graduate Studies and Sponsored Research. The student must bring a signed, dated statement specifying items not to be published to the appropriate office within the first 15 calendar days after the beginning of the fall and spring semesters.

Exemption from Academic Policies

Students may file a petition available from the school and college deans for exemption from academic policies.

Structure of the University

COLLEGE OF ARTS AND SCIENCES
Richard H. Wells, *Dean*

- Anthropology and Sociology
- Art
- Biology
- Chemistry
- English
- Foreign Languages
- Geology and Astronomy
- History
- Mathematics and Computer Science
- Philosophy
- Physics
- Psychology
- Speech Communication and Theatre

SCHOOL OF BUSINESS AND PUBLIC AFFAIRS
Linda Pickthorne Fletcher, *Dean*

- Accounting
- Criminal Justice
- Economics
- Geography and Planning
- Management
- Marketing
- Political Science
- Social Work

SCHOOL OF EDUCATION
Michael L. Hanes, *Dean*

- Childhood Studies and Reading
- Counselor, Secondary and Professional Education
- Instructional Media
- Special Education

SCHOOL OF HEALTH SCIENCES
D. Allan Waterfield, *Dean*

- Communicative Disorders
- Health
- Nursing
- Physical Education

SCHOOL OF MUSIC
Malcolm J. Tait, *Dean*

- Instrumental Music
- Keyboard Music
- Music Education
- Music History
- Music Theory and Composition
- Vocal and Choral Music

Undergraduate Programs at West Chester

Students may enroll at West Chester University in programs leading to the following degrees or certificates:

Associate of Arts (AA)
Associate of Science (AS)
Bachelor of Arts (BA)
Bachelor of Fine Arts (BFA)
Bachelor of Music (BM)
Bachelor of Science (BS)
Bachelor of Science in Education (BSED)
Bachelor of Science in Nursing (BSN)
Local Certificate (CERTIF)
Teaching Certificate (TCHG CERT)

PROGRAM SUMMARY

Accounting BS
American Studies BA
Anthropology AA, BA
Anthropology-Sociology AA, BA
Applied Media Technology AS
Art BA
Art History AA
Athletic Training BS, CERTIF
Astronomy AA
Biology BA, BS, BSED, TCHG CERT
Biology: Clinical Microbiology BS
Business BS
Business Management BS
Chemistry BS, BSED, TCHG CERT
Chemistry-Biology BS
Chemistry-Biology* (Pre-Medical) BS
Chemistry-Geology BS
Clinical Chemistry BS
Communication BSED, TCHG CERT
Communicative Disorders BA
Comparative Literature BA
Computer Science BS
Criminal Justice AA, BS
Dental Hygiene BS, TCHG CERT
Developmental Disabilities AA
Driver-Safety Education TCHG CERT
Early Childhood Education BSED, TCHG CERT
Earth Science AA, BS, TCHG CERT
Earth-Space Science BSED
Economics-Business BA, BS
Elementary Education BSED, TCHG CERT
English (see Literature) BSED, TCHG CERT
Environmental Education TCHG CERT
Ethnic Studies CERTIF
Film Criticism AA
Forensic Chemistry BS
French BA, BSED, TCHG CERT
Geography BA
Geology AA
German BA, BSED, TCHG CERT
Health and Physical Education BS
Health and Physical Education/ Student Designed Concentration BS
Health Education BS, TCHG CERT
Health Sciences BS
History AA, BA, BSED
Holocaust Studies AA
Latin BA, BSED, TCHG CERT
Latin-American Studies CERTIF
Liberal Studies AA, BA, BS
Literature AA, BA
Marketing BS
Mathematics BA, BSED, TCHG CERT
Mathematics-Computer Science BA
Music AA
Music: Composition BM
Music Education BS, TCHG CERT
Music: Performance BM
Music: Theory and History BM
Nursing BSN
Peace and Conflict Studies AA
Philosophy AA, BA
Philosophy-Religious Studies BA
Physical Education TCHG CERT
Physics BA, BS, BSED, TCHG CERT
Physics-Engineering BA, BS
Physics-Mathematics BSED, TCHG CERT
Planning (Geography) AA
Political Science AA, BA
Political Science-Public Administration AA, BA
Psychology AA, BA
Psychological Services AA
Public Health BS
Public Health: Environmental BS
Public Health/Nutrition BS
Religious Studies AA
Respiratory Therapy AS
Russian BA, BSED, TCHG CERT
Russian Studies CERTIF
Secondary Education (See Individual Concentration) BSED, TCHG CERT
Social Studies BSED — Concentrations in Anthropology, Geography, History, Philosophy, Political Science, Psychology, Sociology
Social Work BA
Sociology AA, BA
Spanish BA, BSED, TCHG CERT
Special Education BSED, TCHG CERT
Speech Communication AA, BA
Speech Correction BSED, TCHG CERT
Studio Arts AA, BFA
Theatre AA
Theatre Arts BA
Women's Studies AA
Writing AA

Programs of Study and Course Offerings

Guide to the Catalog

Departments are arranged alphabetically within the college or school housing them (see list on page 41). Interdisciplinary programs are listed within the College of Arts and Sciences. Special programs which are not administered by a particular school are presented last.

Students may obtain a typical sequence of courses for any program from the office specified in this catalog.

Please note that all courses, course descriptions, course sequences, and course substitutions are subject to change. Current information is available from the appropriate department chair, dean, or program coordinator.

Guide to Course Prefixes

Because many program descriptions refer to courses offered by other departments, the following guide to course prefixes is provided.

PREFIX	DEPARTMENT/PROGRAM
ACB	Instrumental Music
ACC	Accounting
ACP	Instrumental Music
ACS	Instrumental Music
ACW	Instrumental Music
ADM	Administration, Leadership for Women
AEB	Instrumental Music
AEO	Instrumental Music
AER	Aerospace Studies
AES	Instrumental Music
AIC	Instrumental Music
AIM	Instrumental Music
ALC	Instrumental Music
AMC	Instrumental Music
ANT	Anthropology and Sociology
ARH	Art
ART	Art
ASA	American Studies
ASH	History, American Studies
BAR	Instrumental Music
BAS	Instrumental Music
BIL	Biology
BIO	Biology
BLA	Business Administration
BSN	Instrumental Music
BUS	Economics
CHE	Chemistry
CHO	Vocal/Choral Music
CLS	Comparative Literature Studies, English
CLT	Instrumental Music
CRJ	Criminal Justice
CRL	Chemistry
CRW	English
CSC	Mathematics and Computer Science
ECE	Childhood Studies and Reading
ECO	Economics
EDA	Special Education
EDC	Counselor, Secondary and Professional Education
EDE	Childhood Studies and Reading
EDF	Counselor, Secondary and Professional Education
EDG	Childhood Studies and Reading
EDH	Counselor, Secondary and Professional Education
EDM	Instructional Media
EDO	Counselor, Secondary and Professional Education
EDP	Counselor, Secondary and Professional Education
EDR	Childhood Studies and Reading
EDS	Counselor, Secondary and Professional Education
EDU	Counselor, Secondary and Professional Education
EDX	Counselor, Secondary and Professional Education
ENG	English
ESL	Geology and Astronomy
ESS	Geology and Astronomy
FIN	Economics
FLM	English
FLU	Instrumental Music
FRE	Foreign Languages
FRH	Instrumental Music
GEO	Geography and Planning
GER	Foreign Languages
GRE	Foreign Languages
GTR	Instrumental Music
HAR	Keyboard Music
HEA	Health
HEB	Foreign Languages
HIS	History
HON	Honors Program
HPE	Physical Education
HRP	Instrumental Music
HTR	Health
IBM	Business Administration
IND	Geology and Astronomy
ITA	Foreign Languages
JRN	English
KEN	Keyboard Music
LAN	Foreign Languages
LAT	Foreign Languages
LEN	English
LIN	Foreign Languages
LIT	English
LPN	Philosophy
MAC	Keyboard Music
MAK	Keyboard Music
MAT	Mathematics and Computer Science
MGT	Business Administration
MHL	Music History
MKT	Business Administration
MSI	Military Science
MTC	Music Theory and Composition
MTE	Mathematics and Computer Science
MTL	Mathematics and Computer Science
MUE	Music Education
MWJ	Music Theory and Composition
MWP	Keyboard Music
NSG	Nursing
NSL	Nursing
OBO	Instrumental Music
ORG	Keyboard Music
PAD	Geography and Planning
PEA	Physical Education
PED	Physical Education
PEL	Physical Education
PER	Instrumental Music
PHE	Geology and Astronomy
PHI	Philosophy
PHL	Physics
PHR	Physics
PHS	Physics
PHY	Physics and Pre-Engineering
PIA	Keyboard Music
POR	Foreign Languages
PSC	Geography and Planning
PSY	Psychology
RES	Counselor, Secondary and Professional Education
RUS	Foreign Languages
SAX	Instrumental Music
SCB	Biology
SCC	Chemistry
SCE	Geology and Astronomy
SOC	Anthropology and Sociology
SPA	Foreign Languages
SPC	Speech Communication and Theatre
SPP	Communicative Disorders
SSC	Social Studies, Ethnic Studies, Peace and Conflict Studies
STA	Mathematics and Computer Science
SWO	Social Work
TBA	Instrumental Music
THA	Speech Communication and Theatre
TPT	Instrumental Music
TRB	Instrumental Music
UNI	Orientation
VCL	Instrumental Music
VLA	Instrumental Music
VLN	Instrumental Music
VOC	Vocal/Choral Music
VOI	Vocal/Choral Music

College of Arts and Sciences

Richard H. Wells, *Dean*

Department of Anthropology and Sociology

Leigh S. Shaffer, *Chairperson*

PROFESSORS: Becker, Greisman, Keith, Samuelson, Shaffer, Stoller

ASSOCIATE PROFESSORS: Luck, Monos, Murphy, Witthoft

ASSISTANT PROFESSORS: Cowen, Morales

The Department of Anthropology and Sociology offers three programs leading to the Bachelor of Arts degree and, in cooperation with the faculty of teacher education, a program leading to the Bachelor of Science in Education.

1. The B.A. in ANTHROPOLOGY focuses on human biological evolution; on the origin, development and integration of human cultures; and on the interrelationship of biological and cultural factors in the etiology of human behavior.
2. The B.A. in SOCIOLOGY focuses on understanding the processes involved in the creation, maintenance and evolution of social structure, and on the impact of diverse structural forms on individual behavior.
3. The B.A. in ANTHROPOLOGY-SOCIOLOGY focuses on the interdisciplinary study of social anthropology/comparative sociology, drawing upon offerings in both sociology and anthropology to develop an analytic understanding of the dialectic of social structure and culture.
4. The B.S. in EDUCATION in SOCIAL STUDIES is for students interested in pursuing a concentration in anthropology or sociology while earning state certification to teach secondary school social studies.

Majors in the three B.A. programs should consult the appropriate department handbook and their advisor for current requirements. Students planning to major in one of these programs are advised to take ANT 102 and SOC 200 no later than their sophomore year. Application for admission is made on forms available from the department office.

Students planning to pursue the B.S. in Education in social studies should consult during the freshman year with both their advisor in this department and their professional studies advisor in secondary education.

REQUIREMENTS COMMON TO THE B.A. PROGRAMS

1. General Requirements, see pages 31-33	51 s.h.
2. Foreign Language/Culture Requirement	0-15 s.h.
3. Limited electives chosen under advisement	18 s.h.
4. Major Requirements	60 s.h.

BACHELOR OF ARTS — ANTHROPOLOGY

1. Required Core Courses ANT 101 or 310, 103, 495 (ANT 102 under social science core)	9 s.h.
2. Specialization Requirements Four to seven courses in anthropology	12-21 s.h.
3. Cognate Requirements LIN 230; additional courses outside of anthropology approved by the student's advisor	15 s.h.
4. Free Electives	15-24 s.h.

BACHELOR OF ARTS — SOCIOLOGY

1. Required Core Courses SOC 300, 321, 322, 492	12 s.h.
2. Specialization Requirements Any six advanced courses in sociology	18 s.h.
3. Career Preparation Sequence Five non-sociology courses approved by the student's advisor	15 s.h.
4. Free Electives	15-24 s.h.

BACHELOR OF ARTS — ANTHROPOLOGY-SOCIOLOGY

1. Anthropology-Sociology Core Courses ANT 341, SOC 322	6 s.h.
2. Anthropology Two topical and two area courses in ethnology, selected in consultation with the student's advisor	12 s.h.
3. Sociology One methodology and three topical (institutional or theoretical) courses, selected in consultation with the student's advisor	12 s.h.
4. Seminar ANT 490	3 s.h.
5. Cognates Four courses selected in consultation with the student's advisor	12 s.h.
6. Free Electives	15 s.h.

BACHELOR OF SCIENCE IN EDUCATION — SOCIAL STUDIES: CONCENTRATION IN ANTHROPOLOGY OR SOCIOLOGY

Students interested in teaching secondary school social studies may pursue a concentration in anthropology or sociology while earning state certification and the Bachelor of Science in Education. See description under SOCIAL STUDIES: B.S. IN EDUCATION.

MINOR PROGRAMS

Students may minor in any of the three following programs. A minimum of 18 semester hours is required. Elective courses are selected in consultation with the student's minor advisor. Students may take any of these minors as a concentration in the Associate of Arts in liberal studies program or as one of the minors in the Bachelor of Arts or Bachelor of Science in liberal studies general degree program.

Anthropology Minor

1. Required Courses ANT 102, either ANT 101 or 103, and one 400 level course in anthropology	9 s.h.
2. Elective Courses Three other courses in anthropology	9 s.h.

Sociology Minor

1. Required Courses SOC 200, 300, 322	9 s.h.
2. Elective Courses Three other courses in sociology	9 s.h.

Anthropology-Sociology Minor

1. Required Courses ANT 102, 341 and SOC 200, 341	12 s.h.
2. Elective Courses Two other courses in either anthropology or sociology	6 s.h.

COURSE DESCRIPTIONS
ANTHROPOLOGY
Symbol: ANT

PRIMARILY FOR FRESHMEN AND SOPHOMORES

101 Introduction to Anthropology: Biological (3) Fundamentals of human biology, evolution, and the prehistoric development of culture. Offered in spring, odd years.

***102 Introduction to Anthropology: Cultural** (3) Comparative anaylsis of culture systems. Offered in fall, spring, summer.

***103 Introduction to Anthropology: Archaeology** (3) Interpretation of culture through analysis of archaeological remains. Offered in spring, even years, and summer.

113 Archaeological Field Techniques (3) Implementation of archaeological principles and theory in laboratory and field studies. PREREQ OR CONCURRENT: ANT 103. Offered in summer.

120 Cultures of Ethnic Groups in America (3) Survey of the cultural history and traditions of ethnic groups in America. Offered in fall, odd years.

FOR SOPHOMORES AND UPPERCLASSMEN

202 World Ethnology (3) Survey of the social organization, belief systems, and cultures of selected peoples. PREREQ: ANT 102 or permission of instructor. Offered in spring, even years.

260 Artifacts and Culture (3) (See also HIS 353.) PREREQ: ANT 102.

◆280 Practicum in Museum Techniques I (3) Exploration of techniques of cataloging, conserving objects, and of designing and setting up exhibits. Involvement in actual museum work. PREREQ: ANT 102 or permission of instructor. Offered in fall, odd years.

FOR UPPERCLASSMEN

A. BIOLOGICAL ANTHROPOLOGY

310 Human Paleontology (3) Evolutionary thought; origin and antiquity of the primates; fossil man and living races. (Some background in biology recommended.)

B. ETHNOLOGY: AREA COURSES

320 American Indian (3) Ethnology of North America PREREQ. ANT 102.

321 American Indian Today (3) Native Americans in contemporary Anglo-America. PREREQ: ANT 102 or permission of instructor. Offered in spring, odd years, and summer.

322 Ethnology of Central America (3) Survey of the modern cultures of Central America: relationships to ancient peoples; the process of modernization in this area. PREREQ: ANT 102.

326 Cultures and Peoples of Sub Saharan Africa (3) Examination of the cultures and societies of Black Africa. PREREQ: ANT 102.

327 Cultures and Peoples of India (3) (See also HIS 302.) PREREQ: ANT 102.

◆329 Problems in Ethnology (3) Survey of the ethnographic literature pertaining to specific geographic regions. Area of focus to be announced in advance. PREREQ: ANT 102.

C. ETHNOLOGY: TOPICAL COURSES

340 Folklore in Society (3) Survey of basic American folklore genres. Emphasis on folklore as process, tradition, and as an element of culture.

341 Social Organization (3) Study of social groups, their structure and functioning. PREREQ: ANT 102.

342 Political Anthropology (3) Analysis of tribal and peasant political systems. PREREQ: ANT 102.

343 Economic Anthropology (3) Analysis of tribal and peasant economic systems. PREREQ: ANT 102.

344 Magic, Religion, and Witchcraft (3) An analysis of supernaturalistic ideology and ritual in both tribal and civil society. PREREQ. ANT 102.

345 Culture and Personality (3) Study of relationship between culture systems and personality. PREREQ: ANT 102.

346 Culture Change (3) Empirical and theoretical study of culture change. PREREQ: ANT 102.

350 Primitive Art (3) (See also ARH 350). PREREQ: ANT 102.

D. ARCHAEOLOGY

360 Historical Archaeology (3) Historical research through archaeology. Chester County is emphasized through local research projects. PREREQ OR CONCURRENT: ANT 103.

362 Archaeology of Central America (3) The archaeological record of Central America, covering the significant features of each culture area from modern Mexico to Panama. PREREQ: ANT 103.

ADVANCED AND SENIOR COURSES

380 Language and Culture (3) (also LIN 380) See LIN 380.

381 Sociolinguistics (3) (also LIN 381) The study of the use of language in society and in educational settings; social dialects; language policy; Black English. PREREQ: ANT 102.

383 Structuralism: From Chaos to Order in the World of Ideas (3) This course is a general survey of structuralist theory as it relates to linguistics, anthropology, psychology and literature. The goal of the course is to demonstrate how structuralism is a theoretical orientation in the social sciences and the humanities that attempts to transform the chaos of appearances into order of reality in the world of ideas.

◆405 Topical Seminar in Anthropology (3) Selected topics in the subdisciplines of anthropology. Topics announced in advance. Juniors and seniors only.

◆410 Independent Studies in Anthropology (1–3) Special research projects, reports, readings in anthropology. Juniors and seniors only. PREREQ: Permission of department chairperson.

459 History of Ethnological Theory (3) Development of ethnological theory with emphasis on the nature of explanation in ethnology. PREREQ: Six hours in ethnology and junior or senior standing.

490 Seminar in Social Anthropology (3) History and theory of social anthropology. PREREQ: Six hours in ethnology and six hours in sociology. Seniors only.

495 Senior Seminar in Anthropology (3) Discussion and supervised research designed to integrate conceptual and methodological skills. The research paper for the seminar must be acceptable as a required departmental senior research paper. Senior anthropology majors only.

SOCIOLOGY
Symbol: SOC

PRIMARILY FOR FRESHMEN AND SOPHOMORES

***200 Introduction to Sociology** (3) Fundamentals of the sociological perspective on human behavior. Offered in fall, spring, summer.

***240 Sociology of the Family** (3) Comparative, historical, and cross-cultural analysis of the family institution. Offered in fall, spring, summer.

PRIMARILY FOR SOCIOLOGY MAJORS AND OTHER UPPERCLASSMEN

300 Sociological Theory (3) Historical development of the sociological perspective on human behavior, emphasis on the perennial issues in sociological explanation. PREREQ: SOC 200.

302 Sociology of Everyday Life (3) How people interact in everyday settings examined from the dramaturgical perspectives of Goffman, Douglas, Burke, and others. PREREQ. SOC 200.

321 Statistics in Sociological Research (3) The application of statistical methods to sociological hypothesis testing. PREREQ: SOC 200.

322 Methods of Sociological Research (3) The logic of social research. Fundamentals of research design, data collection and reduction, and non-statistical analysis. PREREQ: SOC 200.

333 Self and Society (3) A symbolic interactionist perspective on social psychology which focuses on the self in social interaction. PREREQ: SOC 200.

335 Racial and Cultural Minorities (3) Analysis of the implications of racial differences, the factors affecting prejudice and discrimination, and structural aspects of group conflicts. PREREQ: SOC 200.

341 Social Inequality (3) Analysis of inequalities in wealth, power, and prestige in contemporary societies. PREREQ: SOC 200.

342 Urban Sociology (3) A descriptive study of the form and development of the urban community with respect to demographic structure, spatial and temporal patterns, and functional organization. PREREQ: SOC 200.

343 Sociology of Organizations (3) Analysis of large-scale formal organizations with emphasis on bureaucracy as the dominant form of social organization in the West. PREREQ: SOC 200.

344 Sociology of Religion (3) Theoretical analysis of social functions of religion; history and internal structure of religious institutions; their relationship to other institutions. PREREQ: SOC 200.

345 Sociology of Education (3) Sociological dimensions of educational institutions. PREREQ: SOC 200.

346 Sociology of Sex Roles (3) Analysis and evaluation of sociological research on sex roles. PREREQ: SOC 200.

#349 Perspectives on Mental Illness (3) An interdisciplinary examination of mental disorders; their definition, cause and treatment. PREREQ: SOC 200.

350 Sociology of Mental Illness (3) A sociological perspective on mental disorders. PREREQ: SOC 200.

351 Deviance (3) Causes and consequences of the construction and violation of social norms. PREREQ SOC 200.

352 Criminology (3) Sociological analysis of the definition, distribution, and causes of crime, and of social response to it. PREREQ. SOC 200.

353 Juvenile Delinquency (3) Theories of delinquency; evaluation of programs for its prevention and control. PREREQ: SOC 200.

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*Approved Distributive Requirement Course

◆This course may be taken again for credit.

360 Sociology of Culture (3) Analysis of the major social movements that have shaped the character and future of modern man. PREREQ: SOC 200.

361 Sociology of Medicine (3) A sociological perspective on health, illness and medical care. PREREQ SOC 200.

362 Sexuality in Society (3) The social dimensions of human sexuality. PREREQ: SOC 200.

364 Sociology of Aging (3) An examination of the problems, adaptations and contributions of the aging population. PREREQ: SOC 200.

369 Social Movements (3) An introduction to the study of social movements both historical and contemporary. PREREQ: SOC 200.

370 Social Problems (3) Analysis of current social disorders. urban unrest, racial tension, poverty, addictions, crime, and mental illness. PREREQ. SOC 200

371 Applied Social Change (3) Strategy and tactics of planning and guiding change in small and large-scale social systems. PREREQ SOC 200.

376 Sociology of War and Peace (3) Exploration of the relationship between social structure and war. PREREQ: SOC 200.

377 Clinical Sociology (3) Analysis and evaluation of therapeutic applications of sociology in group and individual settings. PREREQ. SOC 200.

401 Social Change (3) Critique of the leading models of social order and change; analysis of major transformation in Western civilization. PREREQ: SOC 200.

402 Career Internship in Sociology (6) Field experience in agencies involved in social change. PREREQ. SOC 371, or permission of the instructor.

410 Issues in Sociological Thought (3) Analysis of several of the key philosophic issues underlying sociological thought. PREREQ: SOC 300, or permission of the instructor.

490 Independent Studies in Sociology (1–3) Individual research projects, reports, and/or readings. Seniors only. PREREQ: Permission of department chairperson.

491 Topical Seminar in Sociology (3) Special topics in theory or methodology. Topics announced in advance. Admission by permission of instructor. Juniors and seniors only

492 Senior Seminar in Sociology (3) Preparation of senior research paper. Senior sociology majors only.

Department of Art

Linwood J. White, *Chairperson*

ASSOCIATE PROFESSORS: Lasuchin, Sermas, Simmendinger, Weidner, White

ASSISTANT PROFESSORS: Blake, Defino, Hollon, Shapiro

INSTRUCTOR: Baker

The undergraduate programs offered by the Department of Art give students the opportunity to achieve competence in studio art, theory, and history of art, taking into consideration both personal and vocational needs. Each student's advising reflects an effort to relate the general requirements to art subjects.

In addition to the formal programs listed below, alternative courses of study may be planned in conjunction with other departments. Students are encouraged to make connections between art and other subjects where appropriate to achieve vocational and personal advancement after consultation with the student's advisor.

BACHELOR OF ARTS — ART

1. General Requirements (see pages 31-33) 51 s.h.
2. Language Requirement (see special note below) 0-15 s.h.
3. Art Department Program Requirements (select one track)
   - A. Studio Art I sequence — (prepares student for graduate study and/or personal/vocational competence)
     - (1) Studio Foundation — (ART 106, 111, 112, 206, 220, 221) 18 s.h.
     - (2) Art History, under advisement 12 s.h.
     - (3) Other Studio — (elect from studio offerings) 36 s.h.
     - (4) Senior show required

     ART TOTAL 66 s.h.
   - B. Studio Art II sequence — (provides a basic concentration with the option of a second, pre-professional concentration.)
     - (1) Studio Foundation — (ART 106, 111, 220) 9 s.h.
     - (2) Art History, under advisement 12 s.h.
     - (3) Other Studio — (elect from studio offerings. See special note below.) 15 s.h.
     - (4) Pre-professional concentration—courses to be selected from another discipline (elementary education, special education, business, foreign area studies or others under advisement). 27 s.h.
     - (5) Senior show required

     ART TOTAL 63 s.h.
   - C. Art History — (preparation for graduate study in art history or museum study)
     - (1) Art History Foundation — (ARH 350, 381, 382, 383, 384, 385, 386) 21 s.h.
     - (2) Studio Foundation — (ART 106, 111, 220)
     - (3) Other Art History, museum or other courses relevant to the student's concentration and interests under advisement. 9 s.h. 6 s.h.
     - (4) Senior project required

     ART TOTAL 36 s.h.

Special Note:

Foreign language requirement for Studio I is two semesters with three foreign area study courses. For Studio II and Art History the requirement is to meet the level of Intermediate II, 202.

Studio majors are advised to consider concentration emphasis in general categories of two-dimensional, three-dimensional, or intermedia, or, if the subject area permits, more specialized concentration in single or limited media.

BACHELOR OF FINE ARTS — STUDIO ARTS — The Bachelor of Fine Arts is regarded as the initial professional degree in art by the National Association of Schools of Art. Its primary emphasis is upon the development of skills, concepts, and sensitivities important to the professional artist. Concentration in a major professional area begins only upon the satisfactory completion of the foundation requirements and the approval of the faculty advisor.

1. General Requirement (see pages 31-33) 51 s.h.
2. Art Department Program Requirements*
   - A. Foundation Requirements
     - (1) Studio Art (ART 106, 111, 112, 206, 216, 217, 220, 221, 222, and 211 or 241, and 231 or 347) 30 s.h.
     - (2) Art History (ARH 103,104 and two courses under advisement) 12 s.h.
   - B. Professional Specializations 24 s.h.

     Professional specialization begins in the junior year when the student selects and has been accepted in one of the following areas:
     - (1) Drawing and Painting (ART 226, 227, 245, 306, 307, 316, 317, 320)
     - (2) Graphic Design (ART 211, 212, 310, 311, 312, 490, 491, 499)
     - (3) Printmaking (ART 241, 242, 243, 244, 341, 342, 343, 344)

*Student must maintain a grade of C in all major subjects.

(4) Sculpture and Crafts (a selection of eight courses from ART 231, 232, 266, 321, 322, 325, 331, 332, 335, 347, 348, 409)
(5) General Studio 24 s.h. of approved courses.

C. Art Electives (to be selected with advisement) 18 s.h.
TOTAL ART 84 s.h.

MINOR IN STUDIO ART

I. The student must complete the required courses: ART 106 (Beginning Drawing), ART 111 (Basic Design, 2-D), ART 220 (Basic Design, 3-D) (9 s.h.)

II. The student, under advisement, may select a minor specialization so that the emphasis is upon *one* of these groups: drawing and painting, graphic design, printmaking, sculpture, or crafts (9 s.h.) Total (18 s.h.)

MINOR IN ART HISTORY

This program provides alternative tracks to satisfy a variety of emphases to which art history may be applied. These include both vocational and liberal arts interests which range from a highly structured sequence to a self-designed sequence.

A. *Art History Survey*—Structured sequence of courses designed to provide an in-depth comprehensive core of Western art development. Recommended as an important cultural component to the study of history, literature, performing arts, anthropology, sociology, and psychology.

ARH 350, 381, 382, 383, 384, 385, 386 18 s.h.

B. *Art History and its Interfaces* — According to interest or possible vocational application, provides an opportunity to explore either the various historical periods/styles of art or the interfaces of art history with studio art, American studies, and other cognate areas.

1. Student must complete the required courses ARH 103 and 104 6 s.h.
2. Student must take two upper level Art History courses in addition. 6 s.h.
3. Under advisement — 6 s.h.
   a. any two studio courses
   b. any two American studies courses
   c. any two other art history courses
   d. any two cognate courses from other disciplines
   e. any combination of the above 18 s.h.

Either of these minors may be taken as a concentration by students in the Associate of Arts in liberal studies program or as one of the minors in the Bachelor of Arts or Bachelor of Science in liberal studies general degree program.

COURSE DESCRIPTIONS

ART

Symbol: ART

105 Art Workshop (3) An art workshop for non-art majors. Exploration of art materials and techniques.

106 Beginning Drawing (3) Drawing from direct observation and an introduction to ideas of perception and interpretation. Use of a variety of media.

111 Basic Design (2-D Design) (3) Experimentation with shape, space, light, color, texture in a variety of media toward developing a visual vocabulary.

112 Color and Design (2-D Design) (3) Extensive study of color theory and its application to a variety of fine and industrial art projects.

206 Intermediate Drawing (3) Work in a variety of media and methods designed to develop "aggressive seeing." Emphasis on the exploration of line as boundary to describe form and space, as gesture, as calligraphy, and for expressive qualities as a tool for working in other media. PREREQ: ART 106.

211 Graphic Design I: Lettering and Layout (3) Exploration of design principles through use of lettering and typographic forms as source material for solving problems in communication of ideas. Practical approach to use of drafting tools and graphic materials, basic paste-up procedures. Color separation and over-printing methods, preparation of mechanicals for production purpose, means of reproduction.

212 Graphic Design II: Graphic Concepts (3) Continuation of ART 211 with emphasis on expressive possibilities of lettering and typography. Further study of production methods and use of silk-screen techniques as means of reproduction. PREREQ. ART 211, 242, or permission of instructor.

216 Beginning Painting (3) An introduction to the basic materials and techniques of the painter with emphasis on color.

217 Intermediate Painting (3) The course seeks to provide a workshop atmosphere in which the student is given the opportunity to explore the potential of the painting media. Use of standard materials of paint, brushes, and canvas is required.

220 Fundamentals of 3-Dimensional Design (3) An introduction to theories, processes, and elements of perception and visual design in a three-dimensional situation. Problems will be geared to problem solving rather than object-making.

221 Advanced 3-Dimensional Design (3) Experimentation with various materials toward solving problems in terms of visual elements as they relate to volumetric forms in space.

222 Beginning Sculpture (3) An introduction to the basic fundamentals of sculpture, including concepts of design, knowledge of tools and techniques, materials and processes. Project assignments to be rendered in clay, plaster, wood, and stone.

226 Water Color I (3) An introduction to the basic tools and techniques of the water-color painter. Emphasis upon transparent water color.

227 Water Color II (3) Advanced problems in water color, gouache, tempera, and mixed media.

231 Ceramics I: Basic Techniques (3) Introduction to the basic techniques of ceramics. Hand and wheel methods of construction; knowledge of clay bodies, firing, and glazing.

232 Ceramics II: Intermediate Techniques (3) Fundamental methods of creating clay forms on the wheel. Experimentation with clay bodies, glazes, and the operation of the kiln. Design is stressed.

241 Printmaking: Introduction of Relief Printmaking (3) An introduction to the medium of printmaking: linoleum cuts, woodcuts, and colorgraphs.

242 Printmaking: Introduction to Silk-Screen Printmaking (3) An exploration of the basic techniques of silk-screen printing. Emphasis upon color and design.

243 Printmaking: Intermediate Relief Printmaking (3) Continuation of ART 241 emphasizing expressive possible techniques and their combination with other print media. PREREQ: ART 241, or permission of instructor.

244 Printmaking: Intermediate Silk-Screen Printmaking (3) Continuation of ART 242 emphasizing expressive possibilities of various silk-screen techniques and their combination with other print media. PREREQ: ART 242, or permission of instructor.

245 Architectural Drawing (3) Studio experiences in layout, preparation of plans and elevations, presentations (renderings), and architectural lettering. Use of mechanical drawing tools to help students express steps that occur from design to realization of a structure.

251 Art in the Elementary School (3) Workshop and seminar providing experience with a wide variety of media appropriate for use with children as well as investigation into the philosophy and psychology of children's art.

263 Art as Therapy (3) Exploration of potentials of art activity chosen for their therapeutic value in work with physically or emotionally handicapped in either educational or therapeutic milieu.

266 Introduction to Crafts (3) An introduction to varied materials with an emphasis on craft and design as a form of expression. Applicable to teaching and recreation use. Media to include clay, fibers, glass and metals.

306 Drawing III: Life Drawing (3) An exploration of the abstract dynamics of figure drawing with particular application of anatomical structure to expressive design. PREREQ: ART 106, 206.

307 Drawing IV (3) Individualized instruction in increasingly complex formal and expressive problems in drawing.

310 Graphic Design: Trademark and Logotype (3) Experimentation with designing trademark and logotype symbols in single and multi-pattern images as applied to a variety of advertising media for private and public agencies. PREREQ: ART 211, 242, or permission of instructor.

311 Graphic Design: Independent Project (3) Individualized instruction in design problems at an advanced level.

312 Graphic Design IV: 3-D Graphics (3) Problems in advanced design; the application of

previous studies in design to specific projects. PREREQ: ART 211, 242, or permission of instructor.

316 Advanced Painting (3) Emphasis upon advanced problems in painting in a variety of techniques encouraging individual expression.

317 Painting: Studio Problems (3) Concentration upon individual work and professional competence. Group critiques and discussions.

318 Painting from Landscape: Independent Project (3) Individualized landscape painting course requiring the student to paint on location in the Delaware Valley.

319 Painting From Masters: Independent Project (3) Introduce to the student artist techniques and styles by painting from master works.

320 Painting: Independent Projects (3) The development of a personal style is explored through a theme and its variation. Discipline and self-criticism are realized through a series of critiques and evaluations.

321 Intermediate Sculpture (3) More advanced problems in sculpture with emphasis on individual exploration of form, structure, and process. Independent project to be rendered in choice of materials to include clay, plaster, wood, and stone.

322 Advanced Scuplture (3) Continued exploration and development of individual form and process awareness through involvement with modeling, casting, fabrication, and assemblages. In addition to clay, wood, stone, and plaster, metals and plastics will be utilized.

323 Abstract Painting (3) A studio exploration of the fundamental principles of abstract painting.

325 Sculpture: Independent Projects (3) Individualized instruction in advanced sculpture. Preparation for senior show.

331 Ceramics III: Advanced Techniques (3) An advanced course to develop craftsmanship and to explore clay as a means of individual expression.

332 Ceramics: Studio Problems (3) Work at an advanced level in specialized ceramic techniques.

335 Ceramics: Independent Projects (3) Individualized instruction as well as research and study in ceramic design.

341 Printmaking: Introduction to Intaglio Printmaking (3) Intaglio techniques, etching, dry point, acquatint, and engraving.

342 Printmaking: Introduction to Lithography (3) Fundamentals of stone and plate lithography.

343 Printmaking: Intermediate Etching (3) Continuation of 341 with emphasis on expressive qualities of the medium and its possible combination with other print media. PREREQ. ART 341, or permission of instructor.

344 Printmaking: Intermediate Lithography (3) Continuation of ART 342 with emphasis on expressive qualities of the medium and its possible combination with other print media PREREQ: ART 342, or permission of instructor.

345 Printmaking: Independent Projects (3) Individualized instruction in depth in a selected printmaking medium.

347 Crafts: Weaving I (3) Basic techniques of weaving are explored with emphasis upon fabric design and craftsmanship.

348 Crafts: Weaving II (3) Provides opportunity for the weaver to further explore and develop skills as a designer. Emphasis is placed on the interrelationship between functional materials and design processes.

349 Crafts: Weaving III (3) To resolve advanced weaving problems in project of an individual, creative nature leading to practical application.

359 Resources in Art Education (3) The use of cultural and community resources in the schools with an emphasis on the teaching of art appreciation.

409 Weaving: Independent Projects (3) Individualized instruction and project assignments.

410 Independent Study (3) The opportunity for a student to work on an individual studio problem. Only to be taken under advisement and according to departmental policies.

455 Introduction to Multi-Media (3) A workshop for students with background in the studio arts. To be taken under advisement.

490 Graphic Design V (3) To resolve visual communication problems of diverse nature by graphic means, using elements of typography, symbols, and pictorial images, including photography. PREREQ: ART 211, 212, 310, 312, or by special permission of instructor.

491 Graphic Design VI (3) Continuation of studies outlined in Graphic Design V. Finishing project(s) bringing it to a state of completion — printed art samples, utilizing photo-silkscreen method of reproduction. PREREQ. ART 211, 212, 310, 312, and 490, or by special permission of instructor.

499 Graphic Design: Independent Project (3) An advanced study of an independent nature to compile a portfolio in graphic designs and prints for professional employment or continuation of studies on the graduate level.

ART HISTORY

Symbol: ARH

101 Learning to Look: Fine Arts, Art (3) An introduction to painting, sculpture, architecture and the decorative arts with emphasis on understanding the visual arts as universal human expession.

102 Survey of Art History (3) A general introduction to the history of western art from the earliest cave paintings to the twentieth century.

103 Art History I: Prehistory through Medieval (3) Survey of significant art and architectural monuments from prehistory through Middle Ages.

104 Art History II: Renaissance through Modern (3) Continuation of ART 103 from Renaissance through twentieth century.

350 Primitive Art (Also ANT 350) (3) Analysis of primitive art as determined through ritual and myth. Focus includes ethnographic parallels to prehistory and the concept of primitivism in the West.

360 Function of the Museum in Art (3) Role and function of the museum as an educational and cultural institution. Main focus on field trips to local museums in Chester and Delaware Counties and Wilmington, Delaware, area.

361 Museum Practice (3) Field experience in a particular museum facility in the West Chester, Wilmington, Philadelphia area. PREREQ: ARH 360.

381 Near Eastern Art: Ancient Antiquity (3) The art and architecture of Ancient Egypt, Mesopotamia, Assyria, and Babylonia from 3000–500 B.C.

382 Art of Classical Antiquity (3) The art and architecture of the Greeks, Etruscans, and Romans.

383 Art of Middle Ages (3) The art and architecture of the European medieval world and their development from Early Christian and Romanesque art into the full flowering of the Gothic period.

384 Art of Renaissance-Baroque (3) Study of the art forms of the 15th through 17th century in Europe as they affected social and religious cross currents and the rise of the role of the artist in society.

385 The Romantic Rebellion (3) From David to Rodin: the rise and development of the romantic style and its struggle with orthodox classicism.

386 Modern Art Seminar (3) Analysis of major styles of 20th century art from Picasso to mid-century.

387 Modern Masters (3) An independent research project on a major twentieth century visual artist.

400 Art Seminar (3) Special topics to be announced for studio and art history. Offered periodically as appropriate. PREREQ: Permission from the instructor.

405 Russian Art (3) A history of the art and architecture of Russia from Medieval beginnings through social realism to socialist realism.

413 American Art (3) A survey of American paintings and sculpture from Colonial times to the present.

414 Research and Methodology in Art (3) Introduction to basic research methods and the use of reference material relevant to the study of art history.

415 Art History: Independent Study (3) Opportunity for the student to pursue a particular field of interest.

416 American Architecture: Colonial and Early Republic (3) An introduction to the heritage of our early American architecture. These buildings reveal tangible evidence of the life of the early colonial period and of the republic. The influence of the traditional coupled with modifications because of climate, materials, and labor reflect both provincialism and independence.

417 Modern American Architecture (3) Study of architectural forms and styles in America since the early 19th century, including a thorough analysis and consequent appreciation and understanding of the social, stylistic, and technological sources for our 19th- and 20th-century built environment.

419 Women in Art: Madonna or Model? (3) Traces the position of women artists in society and its effects on their work. What role have women played as the subject of painting through the ages? What are women artists creating today?

420 European Architecture (3) Survey of European architecture from the Norman Conquest to the 20th century.

421 Modern Architecture (3) Traces the technological sources of modern architecture from its roots in the nineteenth century through to the late twentieth century. Includes such influences as the Chicago School, the late Californians, and the Bauhaus, leading to new concepts of space, decoration and use of materials.

485 Classical Archaeology (3) A study of Greek, Etruscan, and Roman Archaeology. Theories of archaeology are given practical application in the field. The discovery, preservation, and analysis of finds from the classical world are studied.

Department of Biology
(See also Pre-Medical Program)

Martha Potvin, *Chairperson*
Georgann Cullen, *Assistant Chairperson*

PROFESSORS: Cinquina, Eleuterio, Fish, Romig, Waber, Woodruff

ASSOCIATE PROFESSORS: Bernhardt, Brown, Cullen, Fairchild

ASSISTANT PROFESSORS: Beneski, Broitman, Greenamyer, Knabb, Mbuy, Potvin, Triano, Vreeland

ADJUNCT PROFESSORS: White, Russell, McLean

The major in biology centers about a core of courses which emphasize broad unifying principles. Available electives provide enriching experiences in many areas of biology.
The Department of Biology offers seven undergraduate degree programs:

1. The B.A. in BIOLOGY provides the liberal education and the special preparation required for careers in university teaching, government service, independent and industrial research, science-related sales and public relations, and other areas of business. This program also prepares students for admission to graduate and professional schools. The possibility of 31 semester hours of free electives enables the student to obtain a minor in another area of interest.
2. The B.S. in BIOLOGY can be individually tailored to provide the skills that students need to achieve their career goals. This program also provides the basic preparation needed for entry into graduate or professional schools.
3. The B.S. in BIOLOGY-MEDICAL TECHNOLOGY offers a unique opportunity for biology majors to enter the field of medical technology. A medical technologist is educated to perform, verify, and interpret a wide variety of laboratory analyses in hematology, immunology and microbiology. They often supervise medical technicians, and because they have a B.S., they can often advance to positions in management, research and education.

   Under special advisement, students complete all of the necessary general education and departmental requirements of the B.S. in biology program in three years. The fourth year is spent in a medical technologist internship program at one of several affiliated hospitals. To qualify for the internship, a student must have an overall G.P.A. of 2.75, a science G.P.A. of 2.50, and approval of the Biology Department and the affiliated hospital. Students completing the internship graduate with a B.S. and the preparation to take the national Medical Technologist Certification Exam.
4. The B.S. in CELL and MOLECULAR BIOLOGY offers the student a strong background in both biology and chemistry. Emphasis on lab-oriented courses prepares the student to pursue a career in laboratory research in cell and molecular biology at industrial, medical, academic, and government facilities. This program also prepares the student for admission to graduate and professional schools.
5. The B.S. in BIOLOGY: MICROBIOLOGY prepares students for careers in and research laboratories, industrial and academic research, and government service in the areas of bacteriology, immunology, virology, mycology, microbial ecology, and parasitology. The program provides extensive laboratory experience with the techniques that are most useful and important to modern microbiological science. This program also provides the basic preparation needed for entry into graduate or professional schools.
6. The B.S. in BIOLOGY: ECOLOGY provides an opportunity for interested students to obtain a strong background in field biology. The required core curriculum and concentration electives provide opportunities for later careers as biologists in state and federal environmental agencies, industry, environmental consulting firms and similar organizations. Internships are strongly recommended as part of the program. Course work emphasizes skills obtained in biology, chemistry and mathematics. Additional course work from other departments may be recommended to fulfill particular career objectives.
7. The B.S. in EDUCATION: BIOLOGY is a program designed to prepare the student for a career in teaching in secondary schools. Professional certification in biology is awarded to the student who completes the program satisfactorily. Students are strongly advised to seek certification in a related area to enhance employment potential. Such related areas include: general science, health, education, athletic training, and environmental education.

REQUIREMENTS COMMON TO THE BACCALAUREATE PROGRAMS

1. General Requirements	51 s.h.
2. Biology Requirements BIO 110*, 220, 230, 490	10 s.h.
3. Other Science Requirements CHE 103-104, 231-232, CRL 103-104, 232, PHY 130-140	27 s.h.
4. Mathematics Requirements MAT 121, one semester of calculus, one semester of computer science.	10 s.h.

B.A. IN BIOLOGY

1. Required Biology Courses* BIO 110, 215, 217, 220, 230, 270, 490	19 s.h.
2. Biology Electives Selected under advisement	12 s.h.

B.S. IN BIOLOGY

1. Required Biology Courses BIO 110, 215, 217, 220, 230, 270, 490	19 s.h.
2. Biology Electives Selected under advisement	24 s.h.

B.S. IN BIOLOGY: MEDICAL TECHNOLOGY

1. Required Biology Courses* BIO 110, 215, 217, 214, 220, 230, 270, 465, 490	27 s.h.
2. BIO 407, 408, internship in medical technology	32 s.h.

B.S. IN BIOLOGY: CELL AND MOLECULAR

1. Required Chemistry Courses CHE 345, 471, 491**, CRL 471	8-9 s.h.
2. Required Biology Courses* BIO 110, 215, or 217, 220, 230, 214, 421, 468, or 466, 490**	24-25 s.h.
3. Biology or Chemistry electives at or above the 300 level	13-15 s.h.

B.S. IN BIOLOGY: MICROBIOLOGY

1. Required Biology Courses* BIO 110, 215, or 217, 220, 230, 421, 490, 214, 314, 465, 454 or 452, 456, or 464	34 s.h.
2. Biology Electives Selected under advisement	10-13 s.h.

B.S. IN BIOLOGY: ECOLOGY

1. Required Biology Courses* BIO 110, 215, 217, 220, 230, 270, 411, 470, 490	25 s.h.
2. Biology Electives	12 s.h.

*Biology core courses must be passed with a grade of "C-" (70) or better.
**CHE 491 may be substituted for BIO 490.

Selected under advisement from BIO 275, 277, 372, 377, 471, 475, 476, 485

3. Ecologically relevant courses selected under advisement 6 s.h.

B.S. IN EDUCATION: BIOLOGY

1. Required Biology Courses* 26 s.h.
   BIO 110, 215, 217, 220, 230, 270, 490, 150
2. Biology Electives 11 s.h.
   Selected under advisement
3. Required Education Courses 30 s.h.

MINOR IN BIOLOGY

The Department of Biology offers a minor in biology. The biology minor requirements are:

1. BIO 110, General Biology (must be passsed with a C− or better) or an A− in BIO 100, Basic Biological Science.
2. BIO 215, Botany or BIO 217, Zoology (must be passed with a C− or better).
3. After fullfillment of requirements 1 and 2, additional biology elective courses, for which the student has the appropriate prerequisites, will be selected under advisement with the minor advisor. These courses will be at the 200 level or higher, and 8–9 credits must be over and above courses required for the student's major.
4. A minimum of 17 credits must be taken for a minor in biology.
5. To graduate with a biology minor, students must maintain a GPA of 2.0 in the minor courses, and they must meet with the minor advisor at least once per semester.
6. Students must take at least 8–9 credits in biology at the 200 level or higher after filing the Application for Minor.

Note to transfer students: In order to receive a degree in biology from West Chester University, a transfer student must successfully complete a minimum of 12 semester hours of biology courses in the West Chester University Biology Department.

ADVANCED PLACEMENT POLICY

A score of three on the Biology Advanced Placement Exam of the College Boards will allow a biology or chemistry-biology major to begin his or her studies without having taken BIO 110, General Biology. Students who are granted advanced placement in biology take an additional three hours of electives in biology.

*Biology core courses must be passed with a grade of "C−" (70) or better.

COURSE DESCRIPTIONS

BIOLOGY

Symbol: BIO unless otherwise shown

(3-2) represents three hours lecture and two hours lab.

★100 **Basic Biological Science (3)** Basic principles of biology. Cell theory, metabolism, genetics, development, diversity of life forms, and ecology. Not open to biology majors. (2-2)

#102 **Humans and the Environment (3)** The effects of human population on earth's resources are studied against a background of physical, biological, and health sciences.

★110 **General Biology (4)** The concepts general to all living organisms such as cell structure and function, genetics, evolution, and ecology. (3-3)

150 **Contemporary Issues in Biology Teaching (1)** Secondary science curriculum, professional organizations, academic preparation of science teachers. (1-1) May not be taken as a biology major elective.

172 **Field Ecology and Natural History (3)** Class and field work in natural history and ecology. Identification of local organisms and pertinent ecological concepts. Not counted toward a biology major. (2-3) PREREQ: permission of department.

204 **Introductory Microbiology (4)** The biology of medically important microorganisms, their structure, taxonomy, physiology, control and host-parasite interactions. (3-2) PREREQ: BIO 100 and one semester of chemistry.

214 **General Microbiology (4)** The biology of microorganisms, their structure, physiology, and control; the nature and dynamics of disease and disease control; principles of food, industrial, and environmental microbiology. The laboratory will deal with microbiological techniques, isolation and identification of microbes, water and food analysis. This course is for biology majors. (3-3) PREREQ: BIO 110 and one semester of chemistry.

215 **General Botany (3)** A survey of plant and plant-like organisms from bacteria to and including the angiosperms with emphasis on anatomy, physiology, reproduction, and economic importance. (2-3) PREREQ: BIO 110.

217 **General Zoology (3)** Principles of animal biology. Form and function of vertebrate and invertebrate animal types (2-3) PREREQ: BIO 110.

220 **Cell Physiology (3)** An introduction to cellular and molecular biology with emphasis on cell morphology, biochemistry, and cell physiology. (2-3) PREREQ: BIO 110 and CHEM 230 or 231 (may be taken concurrently).

230 **Genetics (3)** Nature of genetic material; its qualitative and quantitative variation: recombination; interaction of gene products; regulation of genetic material; its role in evolution. (2-3) PREREQ: BIO 110, MAT 121.

259 **Human Anatomy and Physiology I (4)** An introduction to human structure and function. Skeletal, muscular, and nervous systems are emphasized. Laboratory involves study of the human skeleton and dissection of preserved cats. (3-2) May not be taken as a biology major elective.

269 **Human Anatomy and Physiology II (4)** Continuation of BIO 259. Circulatory, respiratory, digestive, and urogenital systems emphasized. (3-2) May not be taken as a biology major elective. PREREQ: BIO 259.

275 **Field Botany (3)** Methods of studying plants in their natural surroundings. Use of keys, botanical manuals, and illustrated floras to identify living specimens. (2-3) PREREQ: BIO 100 or 215.

277 **Vertebrate Ecology (3)** Animal life in the surrounding localities. Identification, behavior, habitats, feeding, and reproduction. (2-3) PREREQ: BIO 100 or 217. Offered in fall of odd years.

307 **Pathophysiology (3)** An integrated study of the processes involved in the total body systemic complex as it changes from the ordered homeostatic condition to the imbalanced diseased state. The use of disease models, with clinical considerations, strengthens the concepts. (3) PREREQ: BIO 259, 269. Offered in fall. May not be taken as a biology major elective.

314 **Diagnostic Bacteriology (3)** Systematic study of pathogenic bacteria with extensive laboratory experience in handling and identifying these organisms. (3-3) PREREQ: BIO 214.

357 **Comparative Vertebrate Anatomy (4)** Comparative study of the principal organ systems of vertebrates as to their structure, function, and evolutionary relationships. (2-4) PREREQ: BIO 217. Offered in fall.

367 **Physiology of Drug Interaction (3)** An introduction to the mechanism of action of prototype drugs. The physiological alterations produced by various drugs as well as interactions between drug classes will be emphasized. (3) PREREQ: BIO 269 or equivalent.

372 **Aquatic Biology (3)** A laboratory and field oriented course in the ecology and biota of streams and wetlands. (2-3) PREREQ: BIO 215, 217, 270. Offered in fall of odd years.

377 **Entomology (3)** Insects: their structure, function, classification, economic importance, and biological significance. (2-3) PREREQ: BIO 110 or 217. Offered every other year.

407 and 408 **Internship in Medical Technology (16 for each semester, total of 32)** A two-semester work-study appointment with an affiliated hospital. The satisfactory completion of this internship is accepted as the senior year's work by West Chester University. This internship will prepare the student to take the National Exam for Medical Technologists. PREREQ: Students who have completed all required courses and 96 credit hours in the B.S. Biology General Concentration may apply for this internship in the spring semester of their junior year. Students must have an overall G.P.A. of 2.75 and a G.P.A. of 2.5 in the sciences (biology, chemistry and physics) and approval from the Department of Biology and the affiliated hospital.

◆409 **Internship in Biological Sciences (3-16)** A one semester work study appointment with a commercial, industrial or governmental agency. Students will be supervised jointly by the professional scientist of the agency and a faculty member of the Biology Department. A maximum of eight internship credits may be applied toward biology elective credit. PREREQ: Senior standing, G.P.A. of 2.5 and approval of biology curriculum committee.

411 **Biometrics (3)** The experimental design and computer-assisted statistical analysis of bio-

★Approved distributive requirement course.
#Approved interdisciplinary course.
◆This course may be taken again for credit.

logical research problems. (2-3) PREREQ: BIO 110, MAT 121.

421 Cellular and Molecular Biology (4) A lecture and laboratory course that studies the molecular basis of cellular life. Eukaryotic cell structure and function will be emphasized. (3-3) PREREQ: BIO 110, 215 or 217, 220, 468, CHE 103, 104, 231, 232, CRL 103, 104, 231, 232, MAT 121, one semester of calculus.

428 Animal Histology (3) A study of the microscopic structure and function of vertebrate tissues and organs. (2-2) PREREQ: BIO 110, 217 or consent of the instructor. Offered in fall.

429 Microtechnique (2) An introduction to histological and histochemical laboratory techniques. (4) PREREQ: BIO 428 or consent of instructor.

431 Molecular Genetics (3) A second course in genetics covering the molecular biology of genetic events. Emphasis will be on the molecular details of basic genetic processes such as DNA replication and transcription, RNA translation and protein synthesis, the genetic code, molecular mechanisms of gene regulation, and an introduction to "biotechnology." (3) PREREQ: BIO 230, CHE 232.

◆435-439 Course Topics in Biology (1-3) Courses in this series are of timely interest to the student. Topics may include biological terminology, laboratory techniques, mycology, etc. Open only to junior and senior science majors.

448 Animal Development (4) Introduction to principles of animal development with laboratory study of vertebrate embryos. (3-3) PREREQ: BIO 110, 230. Offered in spring.

452 Parasitology (3) Biology of the principal parasites of man and domestic animals. Emphasis is on life cycles of common parasites, identification of diagnostic forms, and understanding the diseases associated with parasites of major economic and medical importance. (3) PREREQ: BIO 204 or 214, 217. Offered in spring of even numbered years.

454 Mycology (3) An introductory course including a general study of the biology of fungi and a survey of the field of medical mycology. (3) PREREQ: BIO 110 plus four hours of biology.

456 Virology (3) Molecular biology of bacterial, plant, and animal viruses; virus classification, ultrastructure, mechanisms of replication and effects of virus infection on host cell. PREREQ: One year of organic chemistry, BIO 230.

457 Functional Animal Morphology (3) A study of the structure, form, and function of morphological adaptations in animals as examined through a mechanical, ecological, and evolutionary perspective. (3) PREREQ: BIO 217.

464 Microbial Physiology (3) Physiology and biochemical variations seen in prokaryotes and lower eukaryotes. (2-4) PREREQ: BIO 214, 230, and CHE 232.

465 Immunology (4) Immunoglobulin structure and function, nature of antigens, cell-mediated immunity, hypersensitivity, regulation of immunity, immunological diseases. Laboratory experience in immunological techniques. (3-3) PREREQ: CHE 232.

466 Plant Physiology (3) Physiological processes of plants. Photosynthesis, respiration, intermediary metabolism, entrance of solutes into the plant, water metabolism and growth regulators. (2-3) PREREQ: BIO 215, CHE 231.

468 General Animal Physiology (4) General theoretical and applied principles of the physiology of various animal cells, tissues, and organs with an emphasis on homeostasis and mammalian physiology. (3-3) PREREQ: CHE 232, MAT 161, BIO 110.

470 Population Biology (3) A quantitative, second course in ecology, emphasizing distributional patterns and fluctuations in abundance of natural populations. (2-3) PREREQ: MAT 121, one semester of calculus, BIO 270.

471 Wetlands (3) A course designed to provide practical experience in wetland's classification, delineation, regulation, management and mitigation practices. The abiotic and biotic characteristics of inland and coastal wetlands are emphasized. (2-3) PREREQ: eight hours of biology or permission of instructor.

475 Plant Communities (3) A survey of ecological, morphological and physiological strategies of plants from seed through adult stages. The integration of these strategies to explain the major plant communities of North America will be covered. (2-3) PREREQ: BIO 215.

476 Limnology (3) The measurement and analysis of the physical, chemical, and biological properties of lakes. (2-3) PREREQ: BIO 110, CHE 103-104.

480 Light Microscopy and the Living Cell (3) A one-semester lecture and lab course covering the theory and practical techniques of all types of light microscopy and their uses in investigating living cells. Also includes such techniques as microinjection, cell electrophysiology, and others. Strong emphasis on "hands-on" work with equipment. (2-2).

484 Epidemiology (3) A general study of the epidemiology of both infectious and non-infectious diseases, including industrial and environmentally related health problems. (3) PREREQ: BIO 214.

485 Systematic Botany (3) Principles of evolution as illustrated by the principles of plant taxonomy. Modern concepts of biosystematics. Practical experience in plant identification. (2-3) PREREQ: BIO 215.

490 Biology Seminar (1) Reports on special topics and current developments in the biological sciences. PREREQ: BIO 110, 215 or 217, 220, 230 and six hours of 300-400 level biology courses.

◆491 Special Problems in Biology (1–3) Tutorial course primarily for advanced undergraduate biology majors capable of independent study and research on a problem approved by the supervising instructor. PREREQ: Consent of instructor.

#SCB 210 The Origin of Life and the Universe (3) An interdisciplinary course which presents the theory and evidence for the first three minutes of the universe and formation of the stars, galaxies, planets, organic molecules, and the genetic basis of organic evolution. (3) PREREQ: High school or college courses in at least two sciences.

SCB 350 Science Education in the Secondary School (3) A methods course emphasizing knowledge of curricular development and skill in planning, involving the design and execution of learning activities for all instructional modes. (2-2) PREREQ: BIO 150 for biology majors.

#Approved interdisciplinary course

◆This course may be taken again for credit.

Department of Chemistry
(See also Pre-Medical Program)

Michael J. Moran, *Chairperson*

PROFESSORS: Durand, Fenton, Goudy, Magnuson, Mangravite, Moran, Rudnick, Torop

ASSOCIATE PROFESSORS: Reid, Sevem, Witonsky

ASSISTANT PROFESSORS: Ahmad, Barth, Cichowicz, Ghoroghchian, Ressner

The Department of Chemistry offers five undergraduate degree programs:

(1) The B.S. in CHEMISTRY (ACS Certified) program enables students to receive basic preparation required for the careers in chemistry of their choice. Such choices include college and university teaching, positions as professional chemists, research work, and various services in industry and government. In all cases, the program prepares students for graduate study in the field of chemistry.

(2) The B.S. in CHEMISTRY-BIOLOGY* (Pre-Medical) provides the core courses required for admission to schools of medicine, dentistry and veterinary medicine. It also enables the student to pursue a career in biochemistry and molecular biology. Students in this program must apply before being admitted to the Pre-Medical Program.

(3) The B.S. in CLINICAL CHEMISTRY is a program which trains students for careers in hospital or private clinical chemistry laboratories. A one-semester internship in a hospital clinical chemistry laboratory is a mandatory part of this program. Students completing the program are eligible for certification as clinical chemistry technologists by the National Registry in Clinical Chemistry.

(4) The B.S. in FORENSIC CHEMISTRY is a program which trains students interested in working in criminalistics and toxicology laboratories. The program prepares students for graduate study and specialization in these fields. A one-semester internship in a police or toxicology forensic-chemistry laboratory is a mandatory part of this program.

(5) The B.S. in EDUCATION in CHEMISTRY program prepares the student for a career in teaching chemistry in secondary schools. The program gives the student experience in the major branches of chemistry so that, with proper selection of electives, graduate work in either pure chemistry or chemical education can be pursued. Sufficient flexibility is provided so that the student may also become certified in general science.

The Department of Chemistry is accredited by the American Chemistry Society, which provides its professional certification to graduates of the B.S. in chemistry program.

Internship Program

Although internships are not a mandatory part of all chemistry programs, they are available to majors on a selective basis. Students receive varying amounts of credit based upon the number of hours spent in a work situation and upon the nature of the academic work necessary during the internship. Credit varies from three to fifteen semester hours; each eight-hour workday per week is equivalent to three semester hours.

Majors in the five B.S. programs should consult the Chemistry Department handbook and their advisor for current requirements. A grade of "C−" or better is necessary in all required science and math courses.

REQUIREMENTS COMMON TO ALL DEGREE PROGRAMS

1. General Requirements — 51 s.h.
2. Chemistry Requirements — 10 s.h.
   CHE 103-104
   CRL 103-104
3. Other Science Requirements — 8 s.h.
   PHY 170-180
4. Mathematics Requirements — 11 s.h.
   MAT 161-162, CSC 141

BACHELOR OF SCIENCE—CHEMISTRY

1. Required Chemistry Courses — 43 s.h.
   CHE 231, 232, 233, 321, 341, 342, 411, 418, 424, 471, 491
   CRL 232, 233, 321, 341, 342, 424
2. Chemistry Electives — 9 s.h.
   Selected from upper-division chemistry courses
3. Other Required Courses — 9 s.h.
   Foreign languages, mathematics or computer science elective

BACHELOR OF SCIENCE — CHEMISTRY-BIOLOGY*

1. Required Chemistry Courses — 22 s.h.
   CHE 231, 232, 321, 345, 471
   CRL 232, one from among CRL 321, 345, 471
2. Required Biology Courses — 24 s.h.
   BIO 110, 117, 330, 357, 448, 468
3. Other Required Courses — 6 s.h.
   MAT 121
   Concentration Elective

BACHELOR OR SCIENCE — FORENSIC CHEMISTRY

1. Required Chemistry Courses — 45 s.h.
   CHE 231, 232, 321, 345, 371, 418, 450, 471, 479
   CRL 232, 321, 345, 371, 471
2. Other Required Courses — 14 s.h.
   BIO 110, 468; CRJ 200; MAT 121

BACHELOR OF SCIENCE IN EDUCATION — CHEMISTRY

1. Required Chemistry Courses — 24 s.h.
   CHE 231, 232, 321, 341 or 345, 411, 418, 491
   CHL 232, 321, 345
2. Required Education Courses — 30 s.h.
   EDF 100, EDP 250, EDM 300, EDP 351
   SCE 350, EDS 412, EDS 306
3. Chemistry Electives — 5 s.h.
   Selected from upper-division chemistry courses

BACHELOR OF SCIENCE IN CLINICAL CHEMISTRY

1. Required Chemistry Courses — 46 s.h.
   CHE 231, 232, 321, 341 or 345, 381, 418, 424, 450, 471, 491
   CRL 321, 341 or 345, 381, 424, 471
2. Other Required Courses — 11 s.h.
   BIO 110, 468; MAT 121

COURSE DESCRIPTIONS

CHEMISTRY

Symbol: CHE

Symbol for chemistry labs: CRL

(2-2) represents two hours lecture and two hours lab

*100 **Concepts of Chemistry** (3) A broad survey course with a laboratory experience that seeks to develop an understanding of the field of chemistry through inquiry. Basic competence in scientific methods and procedures will be obtained by observing chemical reactions and studying the chemical and physical properties of a variety of compounds. (2-2)

101 **Fundamentals of Chemistry** (3) A mathematically oriented course for students who intend later to take CHE 103 but whose science and mathematics backgrounds are judged by a pretest to need remediation.

*102 **Essentials of Chemistry** (4) Fundamentals of inorganic, organic, and biological chemistry as applied to the contemporary problems of society. A one–semester course which best serves students pursuing careers in health and physical education. (3-1)

†103-104 **General Chemistry I-II** (3) (3) Basic laws and theories of chemistry including atomic structure, chemical bonding, oxidation-reduction, solutions, and ionic equilibria. Correlations of chemical principles and their application to modern descriptive chemistry. CHE 103 must precede CHE 104. Labs: CRL 103-104.

CRL 103-104 **Experimental General Chemistry I-II** (2) (2) Basic laboratory studies in college chemistry utilizing the quantitative approach. Semi-micro qualitative analysis and inorganic preparations. CONCURRENT OR PREREQ. CHE 103-104. CRL 103 must precede CRL 104. (One hour recitation precedes three hours lab.)

† 105-106 **General Chemistry I-II Advanced Level** (3) (3) These courses are similar to CHE 103-104 but with a presentation that is in greater depth and rigor. PREREQ: High school chemistry or the equivalent and approval of the department chairperson. CHE 105-106 may be substituted for CHE 103-104 as prerequisites for advanced level chemistry courses.

CRL 105-106 **General Chemistry I-II Advanced Level Laboratory** (2) (2) These laboratories are similar to CRL 103-104. CONCURRENT OR PREREQ: CHE 105-106. CRL 105 must precede CRL 106.

230 **Introduction to Organic and Biological Chemistry** (3) A terminal course in fundamentals of organic chemistry. Structural theory of organic molecules, organic synthesis, and biological applications. PREREQ: CHE 104.

231-232-233 **Organic Chemistry I-II-III** (4) (3) (3) A comprehensive study of the structure and reactions of organic molecules, 231 must precede 232 which must precede 233. Lab: CRL 232-233. PREREQ: CHE 104 or CHE 106.

CRL 232-233 **Experimental Organic Chemistry I-II** (2) (2) Basic laboratory skills in organic chemistry including classical as well as instrumental techniques. Organic synthesis and modern spectrophotometric methods of identification. CONCURRENT OR PREREQ: CRL 104, CHE 232-233. CRL 232 must precede CRL 233.

300 **Fundamentals of Radioisotope Techniques** (3) (Also PHY 320) Biological, chemical, environmental and physical effects of nuclear radiation. Radiation detection instrumentation and radio tracer methodology. (2-2) PREREQ: CHE 104 or CHE 106 and PHY 180 or 140.

321 **Analytical Chemistry I** (3) Fundamental principles of analytical chemistry. Theory of gravimetric and volumetric methods of analysis.

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*Approved distributive requirement course.
†Approved two-semester substitute for distributive requirement.

Lab: CRL 321, PREREQ: CHE 104 or CHE 106.
CRL 321 Analytical Chemistry I Laboratory (2) Practical experience in modern techniques of chemical analysis with emphasis on volumetric and gravimetric methods. CONCURRENT OR PREREQ: CHE 321.
SCC 327 Electron Microscopy I (3) (Also ESL 327) An introductory lecture/lab course in theory, operation, and applications of electron beam microscopy. PREREQ: One year of physics, one year of chemistry.
SCC 329 Electron Microscopy II (3) (Also ESL 329) A one-semester lecture/laboratory course in advanced theories, operation, and applications of electron microscopy in scientific research. Emphasis on individual projects. PREREQ: SCC 327.
341-342-343 Physical Chemistry I-II-III (3) (4) (3) The mathematical laws and theories of chemistry including thermodynamics, reaction kinetics, quantum and statistical mechanics, theory of chemical bonding and molecular structure. Lab: CRL 341-342. PREREQ: CHE 104 or 106, PHY 180, MAT 142 or MAT 162.
CRL 341-342 Experimental Physical Chemistry I-II (2) (2) Laboratory exercises in illustrating principles of thermodynamics, kinetics, and quantum mechanics. CONCURRENT OR PREREQ: CHE 341-342.
345 Fundamentals of Physical Chemistry (3) A survey of the fundamental topics in physical chemistry with applications to biology and medicine. Primarily for biology, chemistry-biology and pre-professional majors. Lab: CRL 345. PREREQ: CHE 232, MAT 141 or MAT 161, PHY 180 or PHY 140.
CRL 345 Basic Experimental Physical Chemistry (2) Experiments illustrating the laws of physical chemistry. Primarily for biology, chemistry-biology, and pre-professional majors. CONCURRENT OR PREREQ: CHE 345.
371 Forensic Chemistry (3) Introduction to criminalistics (chemical forensic analytical techniques) with the role, functions, operations and organization of a scientific police laboratory. PREREQ: CHE 104 or 106, CHE 232.
CRL 371 Forensic Chemistry Lab (2) Identification and comparison of trace evidence utilizing modern instruments and classical wet methods of chemical analysis. CONCURRENT or PREREQ: CHE 371.
381 Clinical Chemistry (3) Analysis of biological fluids. Clinical significance of enzyme, electrolyte, protein, and carbohydrate analysis. Requires permission of instructor or preparation in organic chemistry and quantitative analysis. PREREQ or CONCURRENT: CHE 471. CONCURRENT: CRL 381.
CRL 381 Clinical Chemistry Laboratory (2) Lab for 381. Practical experience in analysis of biological fluids for diagnostic parameters. Nature of biological sampling, sample preservation, methodology, statistics, quality control. PREREQ or CONCURRENT: CHE 381, CHE 471, CRL 471.
403 Chemistry of the Environment (3) The chemistry of the atmosphere, hydrosphere, and biosphere; man's impact upon these areas. PREREQ: CHE 104. May also be offered with lab (2-2).
404 Foundations of Nutrition (3) Proteins, lipids, fats, vitamins, and minerals and their role in normal metabolism; nutrition and disease; metabolism and biochemical individuality; cultural and political aspects of nutrition. PREREQ: CHE 104, CHE 230 or 231.
408 Industrial Pollution (3) Applications of elementary chemical engineering to the industrial complexities of the environmental processes. Emphasis on unit operations and unit processes applicable to pollution control and abatement. PREREQ: CHE 104.
409 Descriptive Inorganic Chemistry (3) Emphasis is given to periodic properties of the representative elements, the structure of inorganic solids, the chemistry of aqueous and nonaqueous solutions, and the study of some transition metals. Lanthanides and actinides are also studied. PREREQ: CHE/CRL 104.
410 Advanced Independent Study or Chemical Research (3-6) Taken under the direct supervision of a faculty member. May be taken for two semesters for a total of six credits. PREREQ: Senior standing or permission of department chairperson.
411 Advanced Inorganic Chemistry (3) Structure and properties of the elements and inorganic compounds from a theoretical point of view. Atomic structure and the periodic law; molecular structure and bonding, including symmetry and MO theory; structure, bonding and reactivity of transition-element compounds and main group compounds; acid-base chemistry. PREREQ: CHE 341. CONCURRENT: CHE 342
417 History of Chemistry (1) The history of chemistry and its predecessors from earliest times to present day. PREREQ: CHE 104 or CHE 106.
418 Literature of Chemistry (1) Instruction in the use of a modern chemical library, reference and data acquisition, synthetic procedures and computer data bases. PREREQ: CHE 231.
419 Ethics and Human Values in Science (1) A one-semester course for science majors to acquaint students with ethical problems in their professional careers. PREREQ: CHE 104 or CHE 106.
424 Analytical Chemistry II (3) Basic principles of applied instrumental analysis. Special emphasis on the use of spectrophotometric and electroanalytical instrumentation. Lab: CRL 424, PREREQ: CHE 321, 341. CONCURRENT: CHE 342.
CRL 424 Analytical Chemistry II Laboratory (2) Practical experience in the choice and application of instrumental methods of analysis to chemical systems. CONCURRENT OR PREREQ: CHE 424.
435 Qualitative Organic Analysis (5) A laboratory course in classical and instrumental methods for identification of organic compounds. PREREQ: CRL 233, CRL 321, CHE 418, or permission of instructor. (Two hours lecture)
CRL 435 Qualitative Organic Analysis Lab (0) This laboratory is required of students taking CHE 435. Wet chemical techniques for functional group identification and derivative preparation are combined with modern instrumental methods such as infrared, ultraviolet and NMR spectroscopy to provide the methodology for rapid, efficient identification of unknowns. Six hours of lab per week.
436 Polymer Chemistry (3) Polymerization kinetics, rheology of polymer melts, crystallization parameters, and monomer reactivity in copolymerization. PREREQ: CHE 232.
CRL 436 Polymer Chemistry Laboratory (2) Synthesis of polymers; molecular, physical and thermal characterization of polymers. Instrumental methods include X-rays, IR, electron microscopy, and thermal analysis. CONCURRENT: CHE 436.
450 Internship in Chemistry (3-15) A full or part-time work study appointment in a hospital, commercial, governmental or industrial laboratory supervised jointly by an on-site supervisor and chemistry department faculty member. PREREQ: permission of department internship committee.
471 Fundamentals of Biochemistry (3) Structure and chemistry of proteins and nucleic acids; molecular biology, physio-chemical methods for biomacromolecules, enzymes, and the molecular basis for some physiological phenomena. Lab: CRL 471. PREREQ: CHE 345 or equivalent, CHE 232.
CRL 471 Experimental Biochemistry (2) Laboratory exercises in the fundamentals of biochemistry. CONCURRENT OR PREREQ: CHE 471 or CHE 476.
CRL 472 Experimental Biochemistry II (2) A second semester laboratory course in biochemistry which stresses the use of advanced analytical instruments to characterize biologically important molecules and to elucidate their mechanism of action. PREREQ: CHE 471 or 476; CRL 471.
476-477 Biochemistry I-II (3-3) A two-semester course in biochemistry. The first part shows how the chemistry of amino acids, proteins, enzymes, carbohydrates, lipids and membranes enables living organisms to perform biological functions. The second part covers biosynthesis of diverse molecules, DNA structure and function, molecular physiology including immunoglobulins, hormones, nutrition and nerve action. Chemistry will be related to normal and pathological biological function. PREREQ: BIO 110, CHE 232, CHE 345 or equivalents. CHE 476 must precede CHE 477.
479 Chemical Toxicology (3) A one-semester course in the environmental and physiological aspects of chemical toxicity. Special emphasis will be placed on documentation, sampling and verification of materials. PREREQ: CHE 232.
CRL 479 Chemical Toxicology Laboratory (2) A one-semester course in the basic principles of toxicological analysis. CONCURRENT OR PREREQ: CHE 479.
480 Introduction to Chemical Research (2-6) The student carries out an independent chemical research project under the direction of a faculty member. The faculty member assigns the research topic and background literature readings and works closely with the student in the research laboratory giving instruction in laboratory techniques. The student may be required to write a final research report. PREREQ: Senior standing or permission of department chairperson.
491 Seminar in Chemistry (1) Oral presentation of papers based upon laboratory or library research. PREREQ: permission of department chairperson.
SCC 370 Science and Human Values (3) A one-semester course illustrating the impact of science on human thought, values, and institutions. Ethical, sociological, and psychological aspects of science-mediated change are covered in depth.

Department of English

Claude Hunsberger, *Chairperson*

PROFESSORS: Brooks, Browne, Gaunt, Green, Kelleher, Kent, McGrath, McKenty, Markow, Myrsiades, Weiss, Ziegler

ASSOCIATE PROFESSORS: Fordyce, Hunsberger, Kelly, Larsen, McCawley, Prater, Smith, Trotman, Ward

ASSISTANT PROFESSORS: Awvyah, Bauerlein, Buckley, Combs, Echewa, Fox, France, Godfrey, Holladay, Molholt, Peich, Pflieger, Ramanathan, Rimel, Sabol, Scheffler, Shloss, L. Smith, Teutsch

The Department of English offers three degree programs: the Bachelor of Arts in literature, the Bachelor of Arts in comparative literature (in cooperation with the Foreign Languages Department), and the Bachelor of Science in Education (in cooperation with the School of Education). Each program is planned in consultation with an advisor.

1. The Bachelor of Arts in LITERATURE provides a broad background in English and American literature; valuable training in the critical skills of reading, interpretation, and analysis; intensive practice in writing; and an understanding of the workings of the language. This extremely versatile degree prepares students for graduate studies; law school; and careers in journalism, radio and television, publishing, public relations, and other professions in which skills in reading, writing, and processing information at a sophisticated level are required.
2. The Bachelor of Arts in COMPARATIVE LITERATURE provides a curriculum option for students with an interest in international studies by offering a broad background in European and non-Western culture and literature. See Comparative Literature Studies on pages 67-68.
3. The Bachelor of Science in EDUCATION in ENGLISH prepares students to teach in the secondary schools in Pennsylvania under an Instructional I Certificate. These students will in large part satisfy the requirements for a B.A. in literature, deriving extensive benefits from participation in a carefully constructed program that emphasizes literature as a cultural product and students as active learners. Before receiving permission to student teach, students in this program must satisfy the prerequisites for student teaching listed on pages 103-104 as well as specific English Department requirements listed on this page.

REQUIREMENTS COMMON TO THE B.A./B.S. ED. PROGRAMS

1. General Requirements, see pages 31-33 — 44-51 s.h.

BACHELOR OF ARTS IN LITERATURE

1. Foreign Language Requirement — 3-12 s.h.
2. Departmental Preparatory Requirement — 6 s.h.
   LIT 168 (Gen. Ed.), LIT 295, LIT 296
3. Departmental Intermediate Requirements — 21 s.h.
   ENG 230; two American literature courses, one before 1860 and one after; two British literature courses, one before 1800 and one after; two departmental electives
4. Departmental Advanced Requirements — 9 s.h.
   Three seminars from a selection focusing on topic, author, or theme (LIT 400)
5. Professional Electives or Minor — 0-18 s.h.
6. Additional Electives to complete 128 s.h.

BACHELOR OF SCIENCE IN EDUCATION IN ENGLISH

1. Professional Education Requirements, see page 98 — 30 s.h.
2. Departmental Preparatory Requirements — 6 s.h.
   LIT 168 (Gen. Ed.), LIT 295, LIT 296
3. Departmental Intermediate Requirements — 21 s.h.
   ENG 230, ENG 331, ENG 335, two American literature courses, one before 1860 and one after; two British literature courses, one before 1800 and one after
4. Departmental Advanced Requirements — 9 s.h.
   Three seminars from a selection focusing on topic, author, or theme (LIT 400)
5. Free electives — 12 s.h.

MINOR PROGRAMS

Students may minor in any of the five following programs. Elective courses are selected in consultation with the student's minor advisor.

Literature Minor

1. Required Courses — 6 s.h.
   LIT 200 or LIT 201, LIT 230 or LIT 231
2. Elective Courses — 12 s.h.
   One American Literature and one English Literature (in a period other than those covered in requirement 1) and any two other LIT courses.

Writing Minor

1. Required Course — 3 s.h.
   ENG 201
2. Elective Courses — 12 s.h.
   Any *four* courses selected from the following: ENG 202, 203, 301, 302, 303, 304, 400, 490, 491

Journalism Minor

1. Required Courses — 12 s.h.
   JRN 200, JRN 225, JRN 226, JRN 250
2. Elective Course — 3 s.h.
   One of the following: JRN 315, JRN 335, JRN 355
3. An additional three credit hours are to be earned through a supervised internship (ENG 395) in the communications area or through a practicum (JRN 411) based on one semester's active service on the University's student newspaper. — 3 s.h.

Organizational and Technical Writing Minor

1. Required Courses — 15 s.h.
   ENG 320, ENG 368, ENG 371, ENG 420, and an additional three credit hours are to be earned through a supervised internship in organizational or technical writing
2. Elective Course — 3 s.h.
   Choice of: SPC 330 or computer science course at level CSC 141 or higher

The literature and writing minors may be taken as a concentration by students in the Associate of Arts in liberal studies program or as one of the minors in the Bachelor of Arts or Bachelor of Science in liberal studies general degree program.

COURSE DESCRIPTIONS

ENGLISH

Symbol: ENG

020 Basic Writing (3) A preparatory course of study which emphasizes the basic grammatical, logical and rhetorical skills that produce effective paragraphs. *This course is a prerequisite to ENG 120 for those who do not demonstrate equivalent competence. Credits earned in 0-level courses do not count towards the 128 hours of credit needed for graduation.*

030 English for Non-Native Speakers (3) Individualized instruction for the non-native speaker; conversational English, formal written English, reading and listening comprehension, and grammar. See note under ENG 020.

120 Effective Writing I (3) An intensive course in writing which emphasizes skill in organization and awareness of styles of writing and levels of usage as ways of expressing and communicating experience.

121 Effective Writing II (3) Continues the expository writing experience offered in Effective Writing I, and explores techniques of gathering, evaluating, and selecting materials to be used in writing research papers.

130 Effective Writing I for Non-Native Speakers (3) An intensive course in writing for the non-native speaker of English which emphasizes skill in organization and awareness of styles of writing and levels of usage as ways of expressing and communicating experience. *For non-native speakers of English. ENG 130 is comparable to ENG 120 for international students only.*

131 Effective Writing II for Non-Native Speakers (3) Continues the expository writing experience offered to non-native speakers in English 130, and explores techniques of gathering, evaluating, and selecting materials to be used in writing research papers. *For non-native speakers of English. ENG 131 is comparable to ENG 121 for international students only.*

132 Effective Speaking I for Non-Native Speakers (3) After a brief introduction to the differences between writing and speaking, this course focuses on giving directions, explaining concepts, asking questions, giving presentations, small talk, interviews, and extensive pronunciation drills.

134 Idioms in the Context of American Culture (3) Through the use of modern American movies, this course helps students learn the meanings of idioms in context. Students practice using these idioms in drills and exercises.

200 Writing Improvement (3) A workshop that provides intensive instruction for students who experience difficulty in writing. Not open to freshmen. P/F only.

204 Practical Prose Composition (3) Writing in various modes that authentically mirror real situations in everyday life including the world of work.

205 Writing from Experience (3) Exploration of personal history and attitudes through carefully structured composition tasks of autobiographical narrative memoir and introspective analysis.

230 (Also LIN 230) Introduction to Linguistics (3) Basic concepts of language description, classification, change, reconstruction, dialectology, and sociolinguistics. (Prerequisite for all courses in English language.)

270 Publishing (3) A practical examination of the general components of the publishing field, with emphasis on book production.

271 Typography (3) This course provides students with experience in production of books, using historical and modern methods of design.

275 Literary Editing and Publishing (3) Experience in publishing the student literary magazine *Daedalus*: editing, proofing, photographic selection and layout, printing.

304 Essay Workshop (3) Experience in reading and writing essays, with focus on revision, on the use of the public "I," and on appropriate voice. Attention to invention.

320 Writing in the Professions (3) Introduction to document analysis and production, the review process, empirical evaluation, and design principles.

330 English Phonology (3) Phonemics and morphophonemics in English. Writing systems and phonemic-graphemic relationships in English. Historical development of English sounds. PREREQ: ENG 230.

331 Structure of Modern English (3) A detailed analysis of the modern descriptive approach to the study of English grammar and how it compares with the traditional approach. PREREQ: ENG 230.

335 History of the English Language (3) Review of the influences on the development of the English language. PREREQ: ENG 230.

339 History and Dialects of American English (3) Development of the English language in America since colonial settlement. American and British English. Pronunciation, vocabulary, and grammar of the regional and social dialects of American English. PREREQ: ENG 230.

340 Sociolinguistic Aspects of English (3) The study of language in its social context; the ethnography of communication; language and society, social classes, ethnic groups, politics, sex, and education. PREREQ: ENG 230.

350 Introduction to English as a Second Language (3) Exploration of the scope of the field, types of programs, general approaches to instruction.

368 Organizational Writing (3) The nature of communication within organizations. Theoretical basis and practical application.

371 Technical Writing (3) Instruction in the forms and techniques of written, oral, and visual communication currently practiced in the scientific and technical professions. A series of coordinated assignments leads to a final report on a project in the student's field of professional study. PREREQ: ENG 121.

390 Teaching English in Secondary Schools (3) Review of language-arts requirements in secondary schools. Special reference to grade-placement with adoption of materials, appraisal of results, and development of programs of study. PREREQ: ENG 331, 335, EDM 300, EDP 351, EDS 306.

395 Internship (3-12) Intensive practical experience with selected businesses, media, and public agencies. Limited to qualified students who have earned a minimum of 80 credit hours. See *Handbook for English Majors* for specific requirements.

397 Writing Tutoring (3) Theory and practice of writing tutoring, especially for those who plan a career in teaching or who are focusing on the remediation or development of language and writing skills.

410 Independent Study (3)

411-413 Yearbook Practicum I, II, III (1) Practical yearbook production experience within a closely supervised framework. PREREQ: ENG 270 or permission of the instructor.

414 Tutoring Practicum (1) Supervised experience as an undergraduate tutor for any of the English tutoring programs (e.g., English Department or ADP tutoring, etc.).

420 Report and Proposal Writing (3) Working in writing groups and individually, students complete proposal and report writing projects that respond to organizational needs and criteria. They learn to conceptualize research problems and plan, organize, and design major projects. PREREQ: ENG 368, 371, or graduate status.

430 Language Seminar (3) Studies in English language and linguistics. PREREQ: ENG 230 and at least junior standing.

450 Prose Writing Seminar (3) This variable-topic seminar concentrates on problems in advanced writing, focusing on prose analysis and its application to student writing and revision.

LITERATURE

Symbol: LIT

★165 Introduction to Literature (3) A course designed to develop awareness of literature as being central to all the arts; to increase level of literacy and critical faculties; and to broaden understanding of the human condition. PREREQ: ENG 120 or permission of the department. (CLS 222 is an approved substitute for LIT 165.)

166 Science Fiction (3) A critical study of the science fiction novel focusing on the works of contemporary writers such as C.S. Lewis, Asimov, Heinlein, Zalazny, Niven, Anthony, Herbert, LeGuin, and Delaney. (Group E)

168 Conventions of Reading (3) An introduction to the study of textual genres—fiction, drama, poetry, essay, autobiography, and film—and to methodologies of reading. Various cognitive and cultural influences on the reading process will be analyzed.

200 American Literature I (3) Survey of representative American writers from Colonial times to 1860, including Bradstreet, Taylor, Franklin, Poe, Thoreau, Hawthorne, and Melville.

201 American Literature II (3) A survey of representative American writers from 1860 to the present, including Whitman, Twain, James, Crane, Eliot, Frost, Hemingway, and Faulkner.

202 Afro-American Literature I (3) Survey of Afro-American authors from the antebellum era through the first quarter of the 20th century. (Group C)

203 Afro-American Literature II (3) Continuation of LIT 202. Second quarter of the 20th century to the present. (Group C)

204 Black Women Writers of America (3) This course will survey the work of black women writers of America. It will examine their themes and their influence on American and African-American literary contexts.

230 English Literature I (3) A survey of English literature from Anglo-Saxon writing through the 18th century.

231 English Literature II (3) A survey of English literature of the 19th and 20th centuries.

265 Literature and Psychology (3) An examination of the relationships between literature and psychology, with readings from drama (Shakespeare, Ibsen, Albee), poetry (Poe, Browning, Eliot), and fiction (Tolstoy, Joyce, Woolf, Mann, Kafka, Faulkner). (Group E)

269 The Literature of Roguery (3) A historical study of the rogue in fiction with emphasis on the satiric view of society. Among writers studied

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★ Approved Distributive Requirement Course

are Defoe, Thackeray, Donleavey, and Kerouac. (Group E)

#* 270 **Urbanism and Modern Imagination** (3) Covers a variety of responses of contemporary writers, artists, and planners to the rise of the modern city. (Group E)

272 **New Fiction** (3) Fiction published in the last ten years. (Group E)

274 **Feminist Poetry** (3) A study of poetry espousing the feminist cause and exploring the feminist response. Techniques and attitudes of such poets as Plath, Sexton, Rich, Morgan, Wakoski, and Kumin. (Group E)

295 **Historical Context** (3) A study of a representative number of literary texts and the ways they interact historically, socially, intellectually, and politically with their own cultures as well as with the culture of the twentieth-century reader. Literary and non-literary texts will be studied as indicators of cultural and discursive shifts from one historical moment to another.

296 **Theory, Meaning, Value** (3) An introduction to the different theoretical positions that condition the ways in which we read a text and assign meaning to it.

297 **Themes in Contemporary Literature** (3) Literary topic or theme in contemporary American, English or world literature to be announced each time the course is offered. (Group E)

300 **Colonial and Revolutionary American Literature** (3) Writers of Colonial and Revolutionary America.

302 **Development of the American Novel** (3) Beginnings of the American novel to Frank Norris. (Group C)

303 **Introduction to Multi-Ethnic American Literature** (3) American ethnic, racial, and national groups in American literature and the contributions of creative literary artists representing these cultures.

304 **American Jewish Novel** (3) A study of major American Jewish novelists: Cahan, Singer, Roth, Potok, Bellow, Malamud, Wallant, and Wiesel. No knowledge of Yiddish or Hebrew necessary.

305 **Modern American Drama** (3) American drama from the early 1900's to the present, with emphasis on the development of the American Theater as seen in such major dramatists as O'Neill, Odets, Wilder, Miller, Williams, and Albee. (Group C)

306 **Modern American Novel** (3) The novel in America from Dreiser to the present. (Group C)

307 **Modern American Poetry** (3) Major 20th-century American poets. (Group C)

335 **Shakespeare I** (3) Reading, analysis, and discussion of selected histories and tragedies. Discussion of critical approaches to the plays and of appropriate historical and intellectual backgrounds.

336 **Shakespeare II** (3) Reading, analysis and discussion of selected comedies and non-dramatic poems. Discussion of critical approaches to the works and of appropriate historical and intellectual background. Either LIT 335 or 336 may be taken first.

337 **Literature of the Enlightenment** (3) A critical consideration of the 18th-century writers, exclusive of the dramatists. (Group B)

338 **Restoration and 18th Century Drama** (3) The drama from the reopening of the theaters in 1660 to 1800. (Group B)

339 **18th-Century British Novel** (3) The British novel from Defoe to Austen. (Group B)

340 **The Romantic Movement** (3) Wordsworth, Coleridge, Byron, Shelley, Keats, and their contemporaries in the light of social background and critical doctrine. (Group B)

341 **19th Century British Novel** (3) The British novel from Austin to Hardy. (Group B)

342 **Victorian Literature** (3) Victorian thought and culture in poetry and non-fiction prose. (Group B)

343 **Modern British Drama** (3) British drama from Wilde to the present, with emphasis on the rebirth of the British drama and its major writers. (Group B)

344 **Modern British Novel** (3) The novel in England from Conrad to the present. (Group B)

345 **Modern British Poetry** (3) Major 20th-century British poets. (Group B)

352 **Literature for Young Children** (3) A critical study of the literature of young children for prospective specialists in early childhood. (Prerequisite: LIT 165 or equivalent).

364 **Modern Irish Literature** (3) Major literary writers of Ireland from 1840 to the present. George Moore, Synge, Yeats, Joyce, Shaw, O'Casey, Beckett, Behan, and Seamus Heaney. (Group B)

365 **Short Fiction** (3) Analysis and intepretation of short fiction. (Group E)

366 **Criticism** (3) A study of the theories of classical antiquity, England, and the United States, with emphasis on the relevance of these theories to English and American literature of the moment. (Group E)

369 **The Modern Greek Experience** (3) The Greek heritage and its impact on the Greek-American writer and the Greek writer in exile (Petrakis, Gage, Haviaras, Kazantzakis, Cavafy, Seferis, Ritsos).

395 **Children's Literature** (3) A critical study of literature for children, setting standards for evaluation and appreciation. (Prerequisite: LIT 165 or equivalent).

400 **Literature Seminar** (3) Required for English majors in the junior or senior year. May be repeated for credit. Topics offered periodically: Beckett/Joyce, Byron, Dickens, Donne, Fitzgerald, Shaw, Greek Comedy, Greek Tragedy, Hawthorne, Homer, Resistance Poetry, Shakespeare's Major Tragedies, Thomas Hardy.

430 **Old English Language and Literature** (3) An introductory study of the language (450-1150 A.D.) through a reading of religious and secular poetry and prose. (Group A)

431 **Middle English Language and Literature** (3) An introductory study of the language (1150-1450 A.D.) through a reading of selected literary texts. (Group A)

432 **English Drama to 1642** (3) English drama from the early liturgical tropes to 1642, exclusive of Shakespeare. (Group A)

434 **Renaissance Poetry and Prose** (3) Poetry and prose of the 16th and early 17th centuries. (Group A)

435 **Chaucer** (3) An interpretation of *Canterbury Tales* and *Troilus and Criseyde*. (Group A)

437 **Spenser** (3) A study of the *The Faerie Queene* and shorter poems. (Group A)

440 **Milton** (3) A survey of the major poetry and prose works. (Group A)

The English department accepts certain humanities courses as major electives. Consult the *Handbook for English Majors* for a list of approved humanities courses.

Approved Interdisciplinary Course
*Approved Distributive Requirement Course

JOURNALISM
Symbol: JRN

200 **Communications Media** (3) An introduction to the media of communications emphasizing the development and characteristics of print and electronic media forms and their impact on American society.

225 **Newswriting** (3) A course designed to develop proficiency in the writing of news stories for daily and weekly newspapers. News values, the structure and style of news, and the preparation of copy in accordance with professional standards will be stressed.

226 **News Reporting** (3) Instruction and practice in basic news reporting techniques coupled with an introduction to newspaper feature writing. Outside assignments will include coverage of speeches, local government meetings and the courts. PREREQ: JRN 225 or equivalent.

250 **News Editing** (3) A course designed to acquaint students with the skills involved in the preparation of copy for publication in newspapers and magazines. Instruction and practice in the mechanics of copy editing, headline writing, layout and photo editing. PREREQ. JRN 225 or equivalent.

315 **Magazine Article Writing** (3) Practical instruction in the skills required for successful free-lance magazine writing, with emphasis on research, interviewing, writing techniques and marketing. Students will write and submit for publication short features and a full-length magazine article. PREREQ. JRN 225 or equivalent.

325 **History of Journalism** (3) An historical survey of the American press from Colonial times to the present, with special emphasis on the continuing struggle for press freedom and the new journalistic environment created by the emergence of mass media.

355 **Public Relations Principles** (3) An introduction to the role of the public relations practitioner in the formation of public opinion. Communications theory will be combined with specific techniques for working with the press, producing printed material and conducting special events. PREREQ: JRN 225 or equivalent.

411 **Journalism Practicum** (3) One semester of supervised experience as a member of the editorial staff of the University's student newspaper. See journalism coordinator for specific requirements. PREREQ: JRN 225 *and* either JRN 226 or JRN 250.

CREATIVE WRITING
Symbol: CRW

201 **Introduction to Creative Writing** (3) Introduction to the craft of writing poetry and fiction. Basic discussion of terms, strategies, and professional models in each genre. Practice in writing and critiquing each genre.

202-203 **Creative Writing I-II** (3) (3) Writing experience in the crafts of fiction, poetry, and drama.

301 **Poetry Workshop** (3) The theory and practice of poetry, exploration of verse forms; practice in critical and interpretative analysis of poems written by fellow students and professional poets.

302 **Playwriting Workshop** (3) Writing the play: possibilities and limitations of the stage. Attention to sets and costuming where relevant. Characterization by action and dialogue. Problems of establishing motivation. The play's totality in theme, character and action. Informal readings of student work.

303 Short Story Workshop (3) Crafting the modern short story with reference to American and British models. The significance of setting, atmosphere, characterization, and theme. Discussion and some exploitation of experimental ideas in the genre.

304 Essay Workshop (3) Practice in writing the essay. Conventions and techniques of this literary form as it appears in commercial and quality magazines.

400 Writing Seminar (3) Special topics, such as fantasy, science fiction, longer prose works, or the anti-story, to be announced.

490-491 Writing Seminar in the Novel I-II (3) (3) A course in the writing and preparing of book-length manuscripts (novel, novella, "non-fictional" novel) with the intention of submission for publication. Also includes coverage of fictional aspects and techniques used in writing memoirs, biography, current history.

COMPARATIVE LITERATURE STUDIES AND FILM

See course listings under Comparative Literature Studies pages 67-68 .

Department of Foreign Languages

Ronald L. Gougher, *Chairperson*
Frederick Patton, *Assistant Chairperson*

PROFESSORS: Gutwirth, Smith

ASSOCIATE PROFESSORS: Braidotti, Escorcia, Gougher, Patton

ASSISTANT PROFESSORS: Brown, Eisenstadt, Gilmour, Greene, LeBrun-Lanthiez, Pauly, Reiss, Schlau, Varrichio, Williams

INSTRUCTOR: Rosso

BACHELOR OF ARTS

French	Russian
German	Spanish
Latin	

The program in foreign languages provides an advanced educational program for the student interested in the most human aspects of the humanities — language. The program provides a flexible basis for a wide variety of vocations involving bilingual skills and cross-cultural understanding. These include government, commerce, and industry as well as publishing and social services. It also serves as a preparation for graduate studies leading to advanced degrees. The major should be planned with the help of the faculty advisor.

For all foreign language majors some study abroad is desirable, indeed almost indispensable. Students can receive assistance in selecting programs in areas where their language is spoken.

REQUIREMENTS COMMON TO THE B.A. PROGRAMS

1. General Requirements, see pages 31-33	51 s.h.
2. Major Language Courses	33 s.h.
3. Two Cognate Courses:	
A. LIN 230	3 s.h.
B. History of Language Area**	3 s.h.
4. Demonstration of proficiency in a second language through the intermediate II level.	

Depending on their second language proficiency, students have from 27 to 38 elective hours. They may choose to apply some of these to additional advanced courses in their major area or to continue second or third language study.

FRENCH REQUIREMENTS (33 s.h.) FRE 101-102* (or 111-112), 201-202 (or 211-212), 301, 302, 303, 304. Additional courses to complete the 33 s.h. under advisement.

GERMAN REQUIREMENTS (33 s.h.) GER 101-102*, 201-202, 221, 303 and/or 304, 305 and/or 306, 307 and/or 308, 365. Additional courses to complete the 33 s.h. under advisement.

LATIN REQUIREMENTS (33 s.h.)
LAT 101-102*, 201, 202, 303, 406.
Additional courses to complete the 33 s.h. under advisement.

RUSSIAN REQUIREMENTS (33 s.h.)
RUS 101-102*, 201-202, 301-302, 303-304, 307-308, 365.
Additional courses to complete the 33 s.h. under advisement.

SPANISH REQUIREMENTS (33 s.h.)
SPA 101-102*, 201-202, 301-302, 315, 320 or 321, 365, and any two 400 level courses. Additional courses to complete the 33 s.h. under advisement.

BACHELOR OF SCIENCE IN EDUCATION

French	Russian
German	Spanish
Latin	

The Instructional I Certificate in a foreign language qualifies the holder to teach his or her major language in the public schools (kindergarten through 12th grade) of Pennsylvania.

REQUIREMENTS COMMON TO THE B.S. ED. PROGRAMS

1. General Requirements, see pages 31-33	51 s.h.
2. Foreign Language Concentration	33 s.h.
3. Two Cognate Courses:	
A. LIN 230	3 s.h.
B. History of Language Area	3 s.h.
4. Student must complete professional education sequence	30 s.h.
5. Electives to complete 128 hours	

The student is advised to use his/her electives in areas which will contribute to his/her profession.

All students majoring in foreign languages and preparing to teach must also complete LAN 301, credited to professional education.

FRENCH-SPECIALIZED PREPARATION (33 s.h.)
FRE 101-102 (or 111-112), 201-202 (or 211-212), 301, 302, 303, 304. Additional French courses to complete the 33 s.h.

GERMAN-SPECIALIZED PREPARATION (33 s.h.)
GER 101-102*, 201-202, 303-304, 305-306, 307-308, 365.
Additional German courses to complete the 33 s.h.

LATIN-SPECIALIZED PREPARATION (33 s.h.)
LAT 101-102*, 201, 202, 303, 406. Additional Latin and Classical Language courses to complete the 33 s.h.

RUSSIAN-SPECIALIZED PREPARATION (33 s.h.)
RUS 101-102*, 201-202, 301-302, 303-304, 307-308, 365.
Additional Russian courses to complete the 33 s.h.

SPANISH-SPECIALIZED PREPARATION (33 s.h.)
SPA 101-102*, 201-202, 301, 302, 320-321, 365. Two of the following: SPA 309, 315, 323, 330, 331. Additional Spanish courses to complete the 33 s.h.

*Foreign language majors receive no credit toward graduation, a major, or certification for 101 and/or 102 in their majors. If 101 and/or 102 in another language are taken as free electives, they will be credited towards graduation.

**Language majors must consult with advisor for this requirement.

GREEK, ITALIAN, PORTUGUESE
Courses in Greek, Italian and Portuguese may be offered, but no major field is available.

GREEK AND HEBREW — CLASSICAL AND NEW TESTAMENT
Elementary Greek I-II (GRE 101-102) and Intermediate Greek I-II (GRE 201-202). Part of Classical Language Program.

ITALIAN
Elementary Italian I-II (ITA 101-102), Intermediate Italian I-II (ITA 201-202), Introduction to Dante (ITA 301), and High Points in Italian Literature (ITA 302).

PORTUGUESE
Elementary Portuguese I-II (POR 101-102) and Intermediate Portuguese I-II (POR 201-202).

ADDITIONAL LANGUAGES
Selected critical or uncommonly taught languages such as Chinese, Japanese, Polish, Serbo-Croatian, Modern Greek, Modern Hebrew, and Portuguese, on a conversational basis only.

THE JUNIOR YEAR ABROAD PROGRAM

The following courses in French are offered at the University of Montpellier, France, under the Junior Year Abroad Program sponsored by West Chester University. The program is designed for persons interested in France in order to give them a first-hand acquaintance with French life and enable them to achieve an active command of the language.

The program is open to any student enrolled in a college or university who has completed the equivalent of two years of college French and is able to take lectures in French. During the time the student is enrolled in the program, he or she is a student of West Chester University and will receive a minimum of 30 credits for a full two semesters of University work after successful completion of the year-abroad program of studies. Each course runs for two semesters and is conducted entirely in French by French professors. Other types of programs can be arranged for non-language majors.

MONTPELLIER COURSE OFFERINGS:
Advanced Grammar and Composition (FRE 361-62)
Advanced French Conversation (FRE 363-64)
Phonetics and Translation (FRE 365-66)
Contemporary French Civilization (FRE 367-68)
Literary Studies (FRE 369-70)

FOREIGN LANGUAGE MINORS (18 s.h.)
Minors are available in French, German, Italian, Spanish, Russian, and Latin.

A. Language at levels 201 and 202 required.
B. Courses at 200-300-400 level, under advisement in language sections, all courses being in one language study area. Courses offered in English not acceptable.

THE MINOR IN TRANSLATION — 18 SEMESTER HOURS
Open to any student who has a major or minor (or the equivalent) in a second language.
LIN 230 — 3 credits
LAN 350 — 3 credits
LAN 351 — 3 credits
LAN 450 — 3 credits
LAN 460 — 3 credits
CLS 309 — 3 credits

FOREIGN LANGUAGE TESTING AND PLACEMENT
The Department of Foreign Languages provides a testing service for students entering the University. Based on the results of the tests given and an analysis of past experience, the Department of Foreign Languages will suggest the level of language a student should enter. After taking part in any given course for a short period of time, a student's placement could be changed if consultation between the student and an advisor results in a decision to change the placement. The department reserves the right to withhold credit towards a degree for a course taken at a lower level than was recommended by the department.

If a student wishes to take an exam to complete the language requirement or receive credit for a course, he or she must take a special exam other than those given for placement. Arrangements can be made with the chairperson of the Department of Foreign Languages.

COURSE DESCRIPTIONS

FRENCH

Symbol: FRE

101-102 Elementary French I-II (Traditional) (3) (3) Fundamentals of French grammar, syntax and pronunciation. All four skills (listening, speaking, reading and writing) are taught concomitantly. Taught in French. Language laboratory work required.

111-112 Elementary French I-II (Intensive) (4) (4) For linguistically talented and motivated beginners. Course meets once in plenary session and three times in small groups. All four skills (listening, speaking, reading and writing) are taught concomitantly. Language laboratory work required.

200 Intermediate Research (1) Special studies in French for studio art majors. Approval of department required.

201-202 Intermediate French I-II (Traditional) (3) (3) Review of grammar and syntax. Readings in French literature as a basis for class discussion and practice in composition. Language laboratory drill. PREREQ: FRE 102 or equivalent.

211-212 Intermediate French I-II (Intensive) (4) (4) Continuation of intensive first year. Review of French grammar and survey of contemporary French culture. Self-expression is developed through compositions and discussion on assigned topics. Language laboratory work required. PREREQ: FRE 112 Intensive or equivalent.

#EFR 220 French Civilization (3) (in English) A study of France's political and educational systems, economic and religious institutions with emphasis on contemporary aspects.

301 Advanced Grammar and Stylistics (3) The more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in the writing of compositions on a more sophisticated and advanced level, with emphasis on correct usage. Work in language laboratory required. PREREQ: FRE 202 or 212 or equivalent.

302 Advanced Oral French and Phonetics (3) Intensive practice in spoken French to develop skills in pronunciation and in listening comprehension. Introduction to French phonetics. PREREQ: FRE 301 or equivalent.

303 French Civilization (3) (in French) A survey of the social, political, economic and educational structures of France, along with an introduction to the artistic contributions of the French, particularly in the twentieth century. PREREQ: FRE 202, 212 or equivalent.

304 Readings in French Literature (3) The reading and analysis of representative selections of French prose (fiction and non-fiction), poetry, essays, and plays. PREREQ: FRE 301.

401 Commercial French (3) A study of the French economic and business systems, and extensive practice in using forms and expressions frequently used in French business correspondence.

409 Women and Men in French Literature (3) Works by women and men novelists, poets or dramatists that present striking images of love and conflict between the sexes. Taught in English. Also a women's studies course.

410 French Theater to 1900: In Context (3) A study of the French theater from its beginnings to the 19th century in the contexts of their times. Reading and analysis of representive plays from the various periods.

411 Modern French Literature in Context (3) A study of the evolution of modern literary genres beginning with the revolt of the generation of 1900, through Dada and Surrealism and the writers of the absurd to the present.

412 Narrative Prose (3) An examination of the evolution of French prose in the "nouvelle," the

Approved Interdisciplinary Course.

"conte," the "récit" and the novel from their earliest beginnings to the present.

413 French Poetry (3) A history of French poetry and a study of its versification; practice in the recitation of French poems; close textual analysis and discussion of selected works.

♦420-421-422 Topics in French Literature (3) (3) (3) Each topics course explores in depth a significant aspect of French culture, art or literature, its history and influences, and/or its principal exponents, creative artists and advocates. Topics will be announced annually by the French faculty.

FRENCH JUNIOR YEAR ABROAD PROGRAM

361-62 Advanced French Grammar and Composition III, IV (3) (3)

363-64 Advanced French Conversation I, II (3) (3)

365-66 French Phonetics and Translation I, II (3) (3)

367-68 Contemporary French Civilization I, II (3) (3)

♦369-70 French Literary Studies I, II (3) (3)

GERMAN

Symbol: GER

101-102 Elementary German I-II (3) (3) Fundamentals of German grammar, syntax, and pronunciation. Introduction to German culture through easy reading texts. The audio-lingual method is employed, and language laboratory drill is required.

200 Intermediate Research (1) Special studies in German for studio art majors. Approval of department required.

201-202 Intermediate German I-II (3) (3) Review of grammar and syntax. Readings in German literature as a basis for class discussion in German and practice in composition. Language laboratory drill required for remedial work only. PREREQ: GER 102 or equivalent.

Note: All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.

210 German for Business (1) Intensive practice in writing business correspondence, job applications, and discussions of business practices in Germany.

211 German for Science (1) Study of basic vocabulary for reading documents related to various scientific fields. Readings in individual fields of endeavor.

212 German for Travel (1) Study of major cities and cultural sites in Germany. Concentration on contemporary information and travel.

#221 German Civilization (3) (in German) An analysis of the major contributions of German civilization to western culture in the areas of art, music, science, and literature. PREREQ: GER 202 or equivalent.

#EGE 222 German Civilization (3) (in English) An analysis of the major contributions of German civilization to western culture in the areas of art, music, science, and literature. No knowledge of German required.

303-304 Advanced German Grammar and Composition I-II (3) (3) The more complex grammatical and syntactical structures of the language with particular attention to stylistics. Practice in writing compositions on a more advanced level with emphasis on correct usage. PREREQ: GER 202 or equivalent.

305 Survey of German Literature I (3) German literature from its earliest beginnings to 1800. PREREQ: GER 202 or equivalent.

306 Survey of German Literature II (3) German literature from 1800 to the present. PREREQ: GER 202 or equivalent.

307-308 Advanced Oral German I-II (3) (3) Intensive drill in the oral use of the langauge to develop proficiency in listening comprehension and speaking. PREREQ: GER 203 or equivalent.

365 German Phonetics (3) Description and practice in the sounds of the German language and its major dialectical differences. Contrastive analysis with English. PREREQ: LIN 230.

400 20th Century German Literature in Translation (3) A study of selected novels, short stories, and plays from the German literature of the 20th century. An introduction to some of the modern writers of the German speaking world from the perspective of the social and political developments in modern Germany. Work is done in English.

401 The Age of Goethe (3) German literary doctrines and masterpieces of the periods of Enlightenment, Storm, and Stress, and Classicism. PREREQ: GER 202 or equivalent.

402 Contemporary German Literature (3) Works of the principal German writers of the 20th century. PREREQ: GER 202 or equivalent.

406 German Literature in the 19th Century (3) German realism of the 19th Century. PREREQ: GER 206 or equivalent.

407 German Lyric Poetry (3) Modern German poetry of pre- and post-World War II. PREREQ: GER 206 or equivalent.

409 German Literature of the Romantic Period (3) PREREQ: GER 206 or equivalent.

♦410 Independent Studies in German Language and Literature (3) Special topics for advanced students only; admission by permission of instructor.

♦411 Seminar in German (3) Independent study and research for upper division students. Topics announced annually by the German faculty. PREREQ: Permission of instructor.

♦412 Seminar in German (3) Independent study and research for upper division students. Topic announced annually by the German faculty. PREREQ: Permission of instructor.

GREEK

Symbol: GRE

101-102 Elementary Greek I & II (3) Forms, grammar, and idioms of Attic and Koine Greek. Readings in Septuagint and New Testament Greek.

201 Intermediate Greek I (3) Readings in Socratic dialogues of Plato.

202 Intermediate Greek II (3) Homeric prosody and grammar. Reading of selected portions of the Homeric Poems.

♦301-302 Greek Reading I & II (3) (3) Readings in prose and verse, authors usually by genre.

HEBREW

Symbol: HEB

101-102 Elementary Biblical Hebrew I & II (3) (3) Forms, grammar, and idioms of Biblical Hebrew. Selected readings.

201-202 Intermediate Biblical Hebrew I & II (3) (3) Readings in the prose and poetic document of the *Biblia Hebraica*.

ITALIAN

Symbol: ITA

101-102 Elementary Italian I-II (3) (3) Intensive drill, both in class and the language laboratory, with pronunciation, intonation, and basic linguistic patterns. Introduction to Italian culture through basic dialogues and easy reading texts.

201-202 Intermediate Italian I-II (3) (3) Review of Italian grammar and syntax. Introduction to Italian literature through short readings of intermediate difficulty. Composition and conversation in Italian based on reading assignments. Language laboratory for remedial drill. PREREQ: ITA 102 or equivalent.

301 Introduction to Dante (3) This course is taught in English and designed for those desirous of further study in Italian literature, as well as for students in related fields: other Romance languages, English literature and other areas.

302 High Points in Italian Literature (3) The most important Italian writers from the Renaissance to the present day, with emphasis on the modern period.

303 Italian Culture and Civilization (3) (in Italian) An introduction to the philosophical and artistic contributions of the Italian world to Western Civilization.

304 Advanced Oral Italian (3) Theoretical and practical approach to phonology, phonetics, and basic self-expression in the Italian language.

♦410 Independent Studies in Italian Language & Literature (3) Special topics for advanced students only. Admission by permission of the instructor.

♦411 Seminar in Italian I (3) Independent study and research for upper-division students. Topics announced annually by the Italian faculty. Admission by permission of the instructor.

♦412 Seminar in Italian II (3) Independent study and research for upper-division students. Topics announced annually by the Italian faculty. Admission by permission of the instructor.

LATIN

Symbol: LAT

101-102 Elementary Latin I-II (3) (3) Forms, syntax, and idioms of classical Latin. Selected readings..

201 Cicero (3) Selections from the orations, letters, and essays. PREREQ: LAT 101, 102, or two years of secondary school Latin.

202 Vergil (3) Reading and analysis of celebrated portions of the *Aeneid*. The nature of Latin epic poetry. PREREQ: LAT 201 or three years of secondary school Latin

Note: LAT 202 or four years of secondary school Latin is prerequisite to all following courses in Latin.

301 Teaching of Latin (3) Introduction to the problems, methods, and materials in the teaching of Latin.

302 The Latin Lyric Poets (3) Latin lyric poetry through readings in Catullus, the Odes, and Epodes of Horace. Practice in the composition of lyric poetry.

303 Advanced Latin Prose Composition (3) Required of Latin majors; open to other students accepted by the instructor. The complex syntactical structures of Latin of classical style. Translations of English into classical Latin.

304 The Latin Elegiac Poets (3) Latin elegiac poetry through readings in Ovid, Tibullus, Lygdamus, Sulpicia, and Propertius. Practice in the composition of the elegiac poetry.

♦305 Reading Course in Latin (3) Open to Latin majors only. Area and content to be deter-

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Approved Interdisciplinary Course.

♦This course may be taken again for credit.

mined by student's needs.
306 Roman Historians (3) Introduction to Roman historiography. Readings in Livy, Sallust, and Tacitus.
401 Roman Drama (3) Origins and development of Roman drama. Selected plays of Plautus, Terence, and Seneca.
402 Roman Philosophy (3) Introduction to Greek and Roman philosophy. Readings in Cicero, "Tusculan Disputations," and Lucretius, "De Rerum Natura."
403 Roman Satire (3) Origins and development of Roman satire. Readings in Horace, Persius, and Juvenal.
404 The Latin Novel (3) Readings in Petronius, "Satyricon," and Apuleius, "The Golden Ass." Lectures and discussions of the emergence of the novel as a literary form.
405 Medieval Latin (3) Prose and poetry from the 4th to the 17th centuries.
406 Latin Tutorial Course (3) Required of majors in Latin or Classics; open to other students accepted by the instructor. Introduction to the history of the alphabet; principles of historical and comparative linguistics, especially as applied to Greek and Latin, and history of the Latin language as seen in ancient authors and inscriptions.
♦410 Independent Studies in Latin Language and Literature (3) Special topics for advanced students only; admission by permission of instructor.
♦411 Scminar in Latin (3) Independent study and research for upper-division students. Topics announced annually by the Latin faculty. PREREQ: permission of instructor.
♦412 Seminar in Latin (3) Independent study and research for upper-division students. Topics announced annually by the Latin faculty. PREREQ: permission of instructor.

PORTUGUESE

Symbol: POR
101-102 Elementary Portuguese I-II (3) (3) Fundamentals of Portuguese grammar, syntax, and pronunciation. Introduction to Brazilian heritage and culture through graded reading selections.
201-202 Intermediate Portuguese I-II (3) (3) Review and continuation of basic Portuguese with emphasis on vocabulary expansion and cultural insights through increased reading materials. Introduction to selected Portuguese and Brazilian authors. PREREQ: POR 102.

RUSSIAN

Symbol: RUS
101-102 Elementary Russian I-II (3) Intensive drill in pronunciation, intonation, and basic linguistic patterns to develop fundamental communicative skills. Extensive language laboratory work is essential.
200 Intermediate Research (1) Special studies in Russian for studio art majors. Approval of department required.
201-202 Intermediate Russian I-II (3) (3) Reinforcement and refinement of communicative skills through the continuing study and review of grammatical structures. Composition and conversation based on writings of intermediate difficulty by Soviet writers. Students majoring in the sciences or mathematics may elect readings pertaining to the scientific field in the second semester. Extensive language laboratory work is essential. PREREQ: RUS 102.

Note: All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.
301-302 Advanced Russian Grammar and Composition I-II (3) (3) The more complex grammatical and syntactical structures of the language, with particular attention to stylistics. Practice in writing compositions on a more advanced level, with emphasis on current usage. Regular use of the tape program is essential. PREREQ: RUS 202 or equivalent.
303-304 Advanced Readings in Russian Literature I-II (3) (3) Works of Russian and Soviet literature are read and analyzed. PREREQ: RUS 202 or equivalent.
307-308 Advanced Oral Russian I-II (3) (3) Intensive drill in the oral use of the language to develop proficiency in listening comprehension and speaking. Regular use of the tape program is essential. PREREQ: RUS 203 or equivalent.
ERU 309 Soviet Russian Culture (3) (in English) An interdisciplinary course designed to acquaint students with Russian culture and life in the Soviet Union today. No knowledge of Russian required.
305-306 Russian Civilization I-II (3) (3) (in Russian) A study of the cultural, philosophical, religious, and artistic contributions of Russia. PREREQ: RUS 202 or equivalent.
310 Russian Literature in Translation (3) Survey of Russian Literature from its origin to the present. All works read in English. No knowledge of Russian required.
365 Russian Phonetics (3) An overview of Russian phonetics, morphophonemics, and intonation patterns. Dialects and varieties of Russian. Phonetics and intonation practice in the language laboratory. PREREQ: LIN 230.
401 The Russian Novel (3) The Russian novel and literary trends of the 19th and 20th centuries. PREREQ: RUS 205 or equivalent.
402 The Russian Drama (3) Works of the major dramatists of the 19th and 20th centuries. PREREQ: RUS 205 or equivalent.
403 Russian Poetry of the 20th Century (3) A study of the principal Russian poets of the 20th century. PREREQ: RUS 205 or equivalent.
♦410 Independent Studies in Russian Language and Literature (3) Special topics for advanced students only; admission by permission of instructor.
♦411 Seminar in Russian (3) Independent study and research for upper-division students. Topics announced annually by the Russian faculty. PREREQ: permission of instructor.
♦412 Seminar in Russian (3) Independent study and research for upper-division students. Topics announced annually by the Russian faculty. PREREQ: permission of instructor.

SPANISH

Symbol: SPA
101-102 Elementary Spanish I-II (3) (3) Fundamentals of Spanish grammar, syntax, and pronunciation from the oral-aural point of view. Introduction to Spanish culture through easy reading texts.
200 Intermediate Research (1) Special studies in Spanish for studio art majors. Approval of department required.
201-202 Intermediate Spanish I-II (3) (3) Review of Spanish grammar and syntax. Readings in Spanish literature as a basis for class discussion in Spanish and practice in composition. Language laboratory drill recommended for remedial work where needed. PREREQ: SPA 102 or equivalent.
301-302 Advanced Spanish Grammar and Conversation I, II (3) (3) Review and mastery of Spanish grammar, with special emphasis on syntactic structures and stylistics, along with intensive oral drills to develop proficiency in listening comprehension and speaking ability. PREREQ: SPA 202 or equivalent.
303 Commercial Spanish (3) A practical course in learning how to write business letters, apply for jobs, fill orders, and other Spanish-language commercial transactions. PREREQ: SPA 301-302 or permission of instructor.
304 Spanish for the Professional (3) Spanish for the professional in public service fields such as law, safety, medicine, and government. Emphasis on oral communication in specific real-life situations. Translation of forms and documents, writing of professional communications. PREREQ: SPA 301-302 or permission of instructor.
315 Advanced Readings in Spanish (3) Introductory readings of Spanish and Spanish American works from a variety of sources, including literary texts. Special attention to improvement of grammar and oral and written expression. PREREQ: SPA 301-302 or permission of instructor.
320 Civilization of Spain (3) Major contributions of Spain. Cultural, geographic, literary, philosophical, and artistic manifestations of the Hispanic world. PREREQ: SPA 301-302 or permission of instructor.
321 Civilization of Spanish America (3) Cultural, geographic, literary, philosophical, and artistic manifestations of the Hispanic American World. PREREQ: SPA 301-302 or permission of instructor.
323 Language and Culture of Puerto Rico (3) (in Spanish) A study of the language and culture of Puerto Rico. Includes geography, history, immigration, and emigration. Emphasis on Puerto Rican Spanish language patterns and literature. Study of the mid-Atlantic Puerto Rican community. PERREQ SPA 301-202 or permission of instructor.
330 Survey of Spanish Literature (3) Representative selections of Spanish literature from its beginning to the present. PREREQ: SPA 315 or permission of instructor.
331 Survey of Spanish American Literature (3) Representative selections of Spanish American literature from 1492 to the present. PREREQ: SPA 315 or permission of instructor.
365 Spanish Phonetics (3) Description and practice in the sounds of the Spanish language and its major dilectical differences. Contrastive analysis with English. PREREQ. LIN 230 and SPA 302.
400 Spanish Literature to 1550 (3) Spanish literature of the Middle Ages and Renaissance, including epic, early lyric, prose, and theater. PREREQ: SPA 330 or permission of instructor.
401 Spanish Literature of the Golden Age (3) Spanish literature of the sixteenth and seventeenth centuries: mysticism, drama, poetry, and novel. PREREQ: SPA 330 or permission of instructor.
Note: All advanced literature and civilization courses include lectures and discussion in the foreign language, and all student papers and examinations must be written in the foreign language.
402 Spanish Drama of the Golden Age (3) Themes and traditions of the comedia. PREREQ:

Approved Interdisciplinary Course.
♦ This course may be taken again for credit.

SPA 330 or permission of instructor.
404 Cervantes (3) Study of *Don Quixote*. Cervantes' contributions to world literature. PREREQ: SPA 330 or permission of instructor.
405 Modern Hispanic Literatures (18th and 19th Centuries (3) Spanish and Spanish American thought, literature, and culture as revealed in outstanding works from the neo-Classical period to the end of the nineteenth century. PREREQ: SPA 330 or 331 or permission of instructor.
406 The Generation of 1898 (3) A reading and evaluation of the literary and philosophical contributions of writers such as Unamuno and Ortega y Gasset. PREREQ: SPA 330 or permission of instructor.
407 Spanish Literature Since the Civil War Period (3) Introduction to works which represent Spanish literature from the Civil War period to the present. Authors studied include: Arrabal, Cela, Delibes, Garcí Lorca, Goytisolo, Matute, Sender and others. PREREQ: SPA 330 or permission of instructor.
408 Modern Hispanic Poetry (3) A survey of major authors and movements in Spanish and Spanish American poetry of the nineteenth and twentieth centuries. Authors include: Vicente Aleixandre, Gustavo Adolfo Béquer, Rubén Darío, José Espronceda, Federico García Lorca, Gabriela Mistral, Pablo Neruda. Movements include: Romanticism, Modernism, the avant-garde. PREREQ: SPA 330 or 331 or permission of instructor.
409 Contemporary Spanish American Literature (3) A study of major authors and literary movements in contemporary Spanish America, including magical realism in prose fiction, theater of the absurd, avant-garde poetry, and modern essays. PREREQ: SPA 331 or permission of instructor.
410 Contemporary Spanish American Prose Fiction (3) A focus on twentieth century prose fiction in Spanish America. The works of narratists such as Borges, Carpentier, Cortázar, Fuentes, and García Márquez will be examined closely, in light of Spanish American cultural and literary modalities. PREREQ: SPA 331 or permission of instructor.
411 Modern Spanish American Theater (3) Theater as a reflection of social realities; the dynamic of play and audience; theater of the absurd. The Spanish American stage will be analyzed through its cultural, historical, and religious contexts. PREREQ: SPA 331 or permission of instructor.
412 Literature of the Hispanic Caribbean (3) An analysis of the literature of the Hispanic Caribbean placing it in its historical, geographical, and cultural context through a survey of major authors and movements. PREREQ: SPA 331 or permission of instructor.
413 Hispanic Women Writers (3) An examination of the tradition of women writers and their works in Spain and Spanish America from the seventeenth century to the present. Includes fiction, poetry, and theater. PREREQ: Spanish 330 or 331 or permission of instructor.
414 The Black in Spanish American Literature (3) For undergraduates who are interested in the characterization of blacks in Spanish American Literature and the political and social context of their literary portrayal.
◆456-457 Hispanic Literature Seminar I, II (3) (3) Special topics for advanced students only, such as: politics and literature in contemporary Latin America, the literature of discovery and conquest, the novel of the dictator, Spanish literature during and after Franco. Admission by permission of instructor.

Offerings in English (ESP): Interdisciplinary and Culture-Cluster Courses

#ESP 222 Culture and Civilization of Latin America (3) Cultural, geographic, literary, philosophical, and artistic manifestations of the Hispanic American world. No knowledge of Spanish is required.
#ESP 319 Culture and Civilization of Spain (3) A study of the origins and evolution of Spanish character, tradition, and thought. The interrelationship of its history and arts. The scope of its contribution to Western culture. No knowledge of Spanish is required.
ESP 324 Language and Culture of Puerto Rico (3) A study of the language and culture of Puerto Rico. Includes geography, history, immigration, and emigration. Emphasis on Puerto Rican Spanish language patterns and literature. Study of the mid-Atlantic Puerto Rican community. The course is taught in English. No knowledge of Spanish required.
ESP 403 Introduction to Cervantes and *Don Quixote* (3) Reading the full text of *Don Quixote*. Important chapters and topics will be analyzed in English. Special emphasis given to problems of translation. No knowledge of Spanish required.

ADDITIONAL LANGUAGES

191-192 Critical Language I-II (3) (3) Self-instructional program in one of the seldom taught languages: Arabic, Chinese, Dutch, Finnish, Gaelic, Japanese, Korean, Modern Greek, Modern Hebrew, Polish, Portuguese, Serbo-Croatian, Swedish, Vietnamese, etc. The student works with an integrated text, tape program, and a tutor. By permission of Department of Foreign Languages. Not for language requirement.
193-194 Critical Language III-IV (3) (3) Continuation of LAN 191-192.

COURSES COMMON TO ALL LANGUAGES

LAN 301 Teaching of Modern Languages: K-12 (3) Problems, methods, and materials of teaching second languages at all levels. Observation and participation in second-language classrooms. PREREQ: completion of language courses through the advanced level and LIN 230.
LAN 303 Second Languages in the Elementary School (3) Techniques and materials used in teaching second languages in the elementary school. Practice in the application of these techniques and observation of foreign language classes. PREREQ: Completion of intermediate level in the chosen foreign language.
LAN 305 Introduction to Bilingual/Bicultural Education (3) Introduction to the history, philosophy, current status, and future directions of bilingual/bicultural education. Survey of materials, techniques, instructional processes, and instructional patterns. Overview of testing, placement, and pupil evaluation. PREREQ: Intermediate level proficiency in a second language and LIN 250 or equivalent.
LAN 310 Contemporary Literary Criticism (3) A survey of the major developments in European literary criticism during the 20th century with emphasis on the developments of the last 20 years.
◆LAN 411 Topical Seminar (3) Specialized studies in language and the teaching of foreign languages.
LIN 230 (also ENG 230) Introduction to Linguistics (3) See ENG 230.
LIN 250 Psycholinguistics (3) Introduction to the study of relationships between language, generative models, communication theory, and learning theory. Major emphasis on natural language development and bilingualism.
#LIN 330 (also PHI 330) Introduction to Meaning (3) See PHI 330.
LIN 360 (also PHI 360) Philosophy of Language (3) See PHI 360.
LIN 380 Language and Culture (3) Language as an aspect of culture, linguistic-perceptual-cognitive categories; social and psychological aspects of language. PREREQ: LIN 230 or permission of instructor.
LIN 406 Meaning in Language (3) See PHI 406.
LIN 411-412 Seminar in Linguistics (3) Specialized studies in linguistics. Topics announced annually. PREREQ: LIN 230 or at least junior standing.
LIN 415 (also SPC 415) General Semantics (3) See SPC 415.

TRANSLATION COURSES

Symbol: LAN

250 The Art of Translation (3) Techniques of translating literary, journalistic, and technical and scientific texts. PREREQ: 202 or equivalent in a modern language.
350 Translation I (3) Introduction to translation as a profession. A survey of the history, literature and theories of translation and of professional organizations and technical resources available to translators.
351 Translation II (3) Practical work in translating a variety of materials drawn from various fields including literature, business, government and the sciences.
450 Translation III (3) Practice translating more advanced materials with specialization in one or two subject areas.
460 Field Placement (3) Internship under faculty supervision in a translation agency, business firm, or other organization or institution which has substantial translation work as part of its operation.
◆CLS 309 Literature Translation Workshop (3) A writing workshop on the theory and practice of literary translation.

Approved Interdisciplinary Course.
◆This course may be taken again for credit.

Department of Geology and Astronomy

Allen H. Johnson, *Chairperson*

PROFESSORS: Greenberg, Reed, Stolar

ASSOCIATE PROFESSORS: Casciato, Ehleiter, Harber, Johnson, Pritchard, Smith

ASSISTANT PROFESSORS: Fletcher, Wiswall

The Department of Geology and Astronomy offers a Bachelor of Science in earth science with concentrations available in geology or astronomy; a Bachelor of Science in chemistry/geology; and in cooperation with the School of Education, a Bachelor of Science in Education with an emphasis in earth and space science.

1. The B.S. in EARTH SCIENCE is a liberal arts program designed to prepare recipients for occupations in the earth sciences or for studies toward an advanced degree. The curriculum involves an overall science and mathematics exposure but allows for a greater concentration in one aspect of the earth or space sciences, such as the environment, applied geology, astronomy, or oceanography.
2. The B.S. in EDUCATION in EARTH SCIENCE is a professional degree program designed to prepare certified secondary school teachers of earth science. The curriculum involves an overall science exposure with a concentration in the earth sciences.
3. The B.S. in CHEMISTRY/GEOLOGY is a liberal arts program designed to prepare recipients for occupations in chemistry and/or geology as well as for studies toward an advanced degree. The curriculum involves a balanced exposure in chemistry and geology.

A cooperative five-year program with Pennsylvania State University leading to a B.S. from West Chester University in physics and a B.S. in petroleum and natural gas engineering from Pennsylvania State University is also available. For further information about this program refer to the Physics and Pre-Engineering section of this catalog.

Regardless of which degree is pursued, all students must consult with their advisor regularly to avoid problems. Those in the B.S. in Education program will have a second advisor in the School of Education to help the student meet the secondary education requirements.

REQUIREMENTS COMMON TO ALL DEGREE PROGRAMS

1. General Requirements — 42 s.h.
2. Science Cognates — 8 s.h.
   CHE 103, CRL 103; CSC 101 or 115
3. Earth Science Courses — 3 s.h.
   ESS 101

BACHELOR OF SCIENCE — EARTH SCIENCE

1. Science Cognates — 24 s.h.
   CHE 104, CRL 104; MAT 105 or 110, MAT 161, MAT 162; PHY 170 or 130, PHY 180 or 140
2. Earth Science Core Courses — 35-36 s.h.
   ESS 111, ESL 201, ESS 330, ESS 340, ESS 302, ESS 305 or 320; ESS 307, ESS 331 or 450; ESS 336, ESS 404, ESS 478
3. Electives — 13-15 s.h.
   SPC 101 and ENG 371 strongly recommended

BACHELOR OF SCIENCE — EARTH SCIENCE/GEOLOGY

1. Science Cognates — 24 s.h.
   CHE 104, CRL 104; MAT 105 or 110, MAT 161, MAT 162; PHY 170 or 130, PHY 180 or 140
2. Earth Science Core Courses — 20-21 s.h.
   ESL 201, ESS 302, ESS 305 or 320, ESS 331 or 450, ESS 404, ESS 478
3. Earth Science Approved Electives — 12 s.h.
4. Electives — 16-18 s.h.
   SPC 101 and ENG 371 strongly recommended

BACHELOR OF SCIENCE — EARTH SCIENCE/ASTRONOMY

1. Science Cognates — 24 s.h.
   CHE 104, CRL 104; MAT 105 or 110, MAT 161, MAT 162; PHY 170 or 130, PHY 180 or 140
2. Earth Science Core Courses — 15 s.h.
   ESS 111, ESL 201, ESS 355, ESS 404, ESS 478
3. Specialized Courses — any two — 6 s.h.
   ESS 353, ESS 354, ESS 362, ESS 293, ESS 475
4. Other Courses — 17-18 s.h.
   ESS 302, ESS 305 or 320, ESS 307, ESS 331 or 450, ESS 480
5. Electives — 10-14 s.h.
   SPC 101 and ENG 371 strongly recommended

BACHELOR OF SCIENCE — CHEMISTRY/GEOLOGY

1. Science Cognates — 37 s.h.
   CHE 104, CRL 104, CHE 321, CRL 321, CHE 341 or 424, CRL 341 or 424; PHY 170 or 130, PHY 180 or 140; MAT 105 or 110, MAT 161, MAT 162, MAT 121
2. Earth Science Core Courses — 23 s.h.
   ESS 302, ESS 305, ESS 310, ESS 313, ESL 327, ESL 329, ESS 404
3. Electives — 19 s.h.
   SPC 101 and ENG 371 strongly recommended

BACHELOR OF SCIENCE in EDUCATION — EARTH AND SPACE SCIENCE

1. Secondary Education Requirements including SCE 350 — 30 s.h.
2. Science Cognates — 15-16 s.h.
   BIO 110; MAT 105 or 161; PHY 130; MAT 121, MTL 121
3. Earth Science Core Courses — 16 s.h.
   ESS 111, ESL 201, ESS 330, ESL 330, ESS 340, ESS 355
4. Electives — 3 or 4 courses from these groups — 9-14 s.h.
   ESS 302 or 313, ESS 320 or 450, ESS 336 or Remote Sensing, ESS 343 or 331

MINOR PROGRAMS

Students may choose to minor in any of the following programs. Courses are selected with approval of the student's advisor.

1. Astronomy
   ESS 111 plus four other astronomy courses with approval of minor advisor
2. Earth Science
   ESS 101 or ESS 203 with ESL 203 optional, ESS 111, ESS 330 with ESL 330 optional, ESS 340, and one course in earth science with approval of minor advisor
3. Geology
   ESS 101 or 203 plus four other geology courses with approval of minor advisor

Any of these minors may be taken as a concentration by students in the Associate of Arts in liberal studies program or as one of the minors in the Bachelor of Arts or Bachelor of Science in liberal studies general degree program.

COURSE DESCRIPTIONS
GEOLOGY AND ASTRONOMY

Symbol: ESS unless otherwise shown

*101 Introduction to Geology (formerly called Earth Science) (3) The earth's composition and history; the processes that occur on and within the earth. Two hours lecture, two hours lab.

#102 Humans and the Environment (3) A study of the ability of humans to survive and maintain their life quality considering the limited resources and recycling capacity of planet Earth.

* 111 General Astronomy (3) A descriptive course including the composition and evolution of solar and stellar systems. Two hours lecture, two hours lab.

115 Fundamental World Place Names (1) A survey of major countries, capitals and principal cities, large rivers, water bodies and geologically important physical features through map work and lecture.

ESL 151 Graphic Geology I (1) Introduction to the preparation and use of drawings in the geological sciences including the following topics: drawing tools and standards, contour maps, roadways, strike and dip of a plane, plots of a survey, topographic maps.

ESL 201 Fundamentals of Techniques in Geology (3) An introduction to the basic methods of geologic data collection, analysis, and presentation; literature research, and report writing. One weekend field trip is required. PREREQ: ESS 101.

203 Physical Geology (3) The earth's composition (minerals and rocks) and earth processes (weathering, erosion, volcanism, and diastrophism), three hours lecture.

ESL 203 Physical Geology Laboratory (1) two hours (required with lecture).

206 Gemstones (3) A survey of gem formation, identification, fashioning, and evaluation. For the general student. Demonstrations, specimens and field trips complement lecture topics. No science background is assumed.

293 Introduction to Space Science (3) Formal and informal lectures and discussions. Use of current literature. In-depth study of a topic of the student's choice.

302 Mineralogy (4) Physico-chemical principles used in the classification, identification, and origin of minerals. Field examination of local minerals.

305 Petrology (4) Principles of rock origin identification and classification. Laboratory and field examination of rocks. PREREQ: ESS 302.

307 Geology of the Solar System (3) The geology, origin, evolution, and properties of planets, comets, asteroids, moons and meteorites.

310 Intermediate Mineralogy (3) How the petrographic microscope and x-ray diffraction are used to identify minerals. PREREQ: One course in basic mineralogy (ESS 302).

313 Geochemistry (3) The chemistry of the earth and its relation to geologic processes.

320 Structural Geology (4) Determination of the sequential development and the forces involved in the various structural features of the earth.

323 General Geologic Field Studies of Southeastern Pennsylvania (3) Occurrence, relationships, and geologic history of the rocks, minerals and soils of this area, studied at representative locations. PREREQ: ESS 302.

324 History of the Earth Sciences (3) An examination of the history of scientific thought and contributions in the area of the earth sciences. PREREQ: Completion of core requirements in science and mathematics.

326 Economic Geology (3) The origin, geologic and geographic distribution, limits, and production technology of mineral resources. PREREQ: ESS 101, or permission of instructor.

328 Engineering Geology (3) The application of geological factors into the planning and design of engineered construction, ground water extraction, and waste disposal. PREREQ: ESS 101 or permission of instructor.

ESL 327 Electron Microscopy I (3) A one-semester lecture/laboratory course in theory operation and applications of electron beam technology in scientific research. Course scheduled on student-demand basis.

ESL 329 Electron Microscopy II (3) A one-semester lecture/laboratory course in advanced theories of electron microscopy in scientific research. Emphasis on individual projects. PREREQ: ESS 327. Course scheduled on student-demand basis.

330 Introduction to Oceanography (3) A survey of our present knowledge of the waters and floors of the oceans.

ESL 330 Introduction to Oceanography Laboratory (1)

331 Introduction to Paleontology (3) Identification and study of common fossils in order to understand their life process and geologic significance. PREREQ: One course in geology.

336 Environmental Geology (3) The application of geological information to human problems encountered in the physical problems, such as flooding, earthquakes, coastal hazards, waste disposal, and land use. PREREQ: ESS 101 or permission of instructor.

339 Hydrology (3) The factors that control the distribution, occurrence, and recoverability of groundwater; techniques for locating and estimating recoverable water; groundwater pollution and waste water disposal.

340 Introduction to Meteorology (3) Principles governing the conditions of the earth's atmosphere and how these principles determine weather conditions.

341 Geology and Geography of Plants (3) The study of paleo and modern spatial characteristics and distributions of vegetation and their relationship to the geologic, geographic, climatic and man-induced features of the environment. PREREQ: ESS 101 or GEO 101.

342 Geophysics (3) Gravitational, magnetic, seismic (refraction and reflection), and electrical properties of rocks and minerals in the earth. Physical principles of the earth; geophysics in relation to economic deposits. PREREQ: PHY 180 or 140.

343 Geomorphology (3) Constructional and degradational forces which have shaped present landforms, and are constantly reshaping and modifying landforms. Interpretation of geologic and topographic maps; field studies. PREREQ: ESS 101 or GEO 101.

344 Regional Geomorphology of North America (3) A systematic analysis of surface configurations and landform regions of North America; the processes at work on these configurations in the past and at present; human relationships to these features and processes. PREREQ: ESS 343.

345 Geology of Petroleum (3) The geology, origin, occurrence, properties, development, and exploitation of petroleum and natural gas. The future energy demands. PREREQ: permission of instructor.

353 Nautical Astronomy (Celestial Navigation) (3) Technical skills including celestial coordinates, principles of time, the navigational triangle, lines of position and star identification. PREREQ: ESS 111.

ESL 353 Nautical Astronomy Laboratory (1) Observation will be taken in the real sky and with a water horizon, and data will be reduced to determine the position of the observer.

354 Archeoastronomy (3) Astronomical skills of the Babylonians, Egyptians, Greeks, Chinese, Maya, Incas, Aztecs, and the North American Indians. PREREQ: ESS 111 or permission of instructor.

355 Intermediate Astronomy (3) An analytical and qualitative analysis of selected astronomical phenomena. Such topics as: telescope optics (including photographic and photoelectric attachments), lunar and planetary orbits, stellar motions and magnitudes, galactic classifications, and distances. Two hours lecture, two hours lab. PREREQ: ESS 111.

362 History of Astronomy (3) Development of astronomical theories from Greek times until the twentieth century. PREREQ: ESS 111.

394 Geology of the Northwestern National Parks (4) Field course.

395 Geology of the Southwestern National Parks (4) Field course.

404 Historical Geology (3) The geologic history of the earth and the evidences for this history.

ESL 404 Historical Geology Laboratory (1) two hours (required with lecture).

406 Quaternary Geology (3) An investigation of the most recent geologic period, including the records of climate change, geomorphology, glacial history, stratigraphy, sea level changes, and faunal evolution which have accompanied the continental glaciations of the last two million years. Includes spring break field trip.

408 Field Geology (3) Practical experience in the techniques and tools of the field geologist. PREREQ: 305.

409 Field Geology II (3) Exploration techniques involving inference methods: applied geophysics, construction and graphical representation of complex three-dimensional structures.

418 Structural Petrology (3) Deformation mechanisms, rheology; theory of strain: formation and evolution of tectonic features.

425 Tectonics (3) To appreciate how the surface of the planet evolves; why things are where they are.

450 Sedimentation and Stratigraphy (4) Development of the relative geological time, methods and techniques for the description and evaluation of the total environment of the time of the formation of stratified rock.

◆460 Internship (1-18) Work with industry, local, state or federal government agencies under faculty supervision.

475 Introduction to the Planetarium (3) Principles and use of the planetarium in a teaching situation. Specific projects are assigned. PREREQ: ESS 111.

◆478 Earth Science Seminar (3) Reports on special topics and current development.

◆480 Special Problems (1-3) Reports on special topics and current developments in the earth and space sciences. PREREQ: Consent of instructor.

490 Fundamentals of Soil (3) The properties of soils, edaphology, pedology: chemical, physi-

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*Approved distributive requirement course.
#Approved Interdisciplinary course
◆This course may be taken again for credit.

cal, and biological factors. Soil genesis and classification.

♦491 Independent Study (1-3)

#IND 201 Unified Science (3) An interdisciplinary course dealing with methodologies used by all scientists; an analysis of the concepts that find expression in all of the biological and physical sciences.

SCE 310 Science for the Elementary Grades (3) A course to prepare the elementary teacher for teaching science. Selected units or problems which cut across various fields of science. Methods and processes of science and available resources. PREREQ: Completion of science and mathematics general education requirements.

SCE 350 Science Education in the Secondary School (3) Philosophy, objectives, and methods of teaching science. Practical experience provided. PREREQ: A major in liberal arts or secondary education (sciences).

SCE 370 Science and Human Values (3) A one-semester course illustrating the impact of science on human thought, values, and institutions. Ethical, sociological, and psychological aspects of science-mediated change are covered in depth.

♦This course may be taken again for credit.
#Approved Interdisciplinary Course

Department of History

Thomas J. Heston, *Chairperson*
Harry G. Schalck, *Assistant Chairperson*

PROFESSORS: Burgwyn, Crowley, Dzamba, Foster, Heston, Johnson, Riley, Schalck, Shur, Soldon, Swan, Turner, Webster, Young

ASSOCIATE PROFESSORS: Doyle, Peters

ASSISTANT PROFESSORS: Davidson, Hanson

The student of history seeks to recreate the past (or, more precisely, as much of it as possible) not only rationally to explain and understand the past for its own sake, but also to identify our age with earlier times. The student is concerned with the origins, and development, and relationships between past people and events and, from the multiplicity of credible and sometimes conflicting evidence, renders judgments on causation and consequences. He or she seeks to achieve a sense of the past. Among the careers open to history majors are the law, government service, teaching, research, journalism, and business. Indeed, a strong preparation in history can lead to possibilities in virtually every field of endeavor. The Department of History office is 506 Main Hall; the telephone number is (215) 436-2201.

BACHELOR OF ARTS — HISTORY

1. General Requirements, see pages 31-33 — 51 s.h.
2. Foreign Language Requirement — 3-15 s.h.
3. History Concentration Requirements — 30-33 s.h.
   HIS 102, 151, 152 (9 s.h.) and HIS 101 taken under general requirements
   Varieties of History (HIS 300) (3 hrs.)
   Group 1 — American History (6 hrs.)
   HIS 329, 344, 345, 352, 354, 357, 358, 359, 360, 361, 362, 364, 366, 370, 373, 451, 455, 458, 462, 474
   Group 2 — European History (6 hrs.)
   HIS 318, 319, 320, 323, 324, 329, 330, 331, 333, 345, 420, 421, 422, 423, 425, 426, 427, 435, 447
   Group 3 — World and Regional History (6 hrs.)
   HIS 301, 302, 305, 306, 308, 311, 312, 315, 316, 317, 318, 348, 406, 411, 412
   History Electives (3 hrs.)
4. Cognate Courses — 12-15 s.h.
   Four cognate courses selected from literature, art, philosophy
5. Additional free electives to complete 128 s.h.

BACHELOR OF SCIENCE IN EDUCATION — SOCIAL STUDIES

Concentration in History

Students interested in teaching secondary school social studies may pursue a concentration in history while earning state certification and the Bachelor of Science degree. See description under SOCIAL STUDIES: B.S. IN EDUCATION, pages 101-102. All students in history programs must complete HIS 101-102 and HIS 151-152.

HISTORY MINOR

Students may obtain minor recognition on their transcript so that their concentrated choice of free electives will be recognized.

Required courses: one course among HIS 100, 101, or 102 and one course among HIS 150, 151, or 152	6 s.h.
Elective courses, chosen under advisement, from three groups: American, European, World and Regional History (six s.h. in one group; three s.h. in each of the others)	12s.h.

This minor may be taken as a concentration by students in the Associate of Arts in liberal studies program or as one of the minors in the Bachelor of Arts or Bachelor of Science in liberal studies general degree program.

COURSE DESCRIPTIONS
HISTORY

Symbol: HIS unless otherwise shown

*100 Mainstreams in History (3) The historical backgrounds of the modern era examined through a variety of topics and concepts.

† 101 History of Civilization I (3) Man's cultural elements and social institutions in the West and the East from earliest times through the Renaissance.

† 102 History of Civilization II (3) Developments in civilizations from 1500 to the present, with emphasis on Western Civilization and its interrelationships with the non-Western world.

126 History of Utopias (3) Study of the history of Utopias and Utopian schemes from Plato's Republic to contemporary American communes. Utopia, both as an antidote for reality, and as a seed-bed for social, political, and economic reform.

145 The Jew in History (3) Review of the four thousand years and five civilizations which have welcomed the Jewish people; emphasis on the Jews in contemporary society.

146 The Holocaust (3) Focuses on ethnic, nationalistic, economic and religious causes, 20th century Nazism, racism, anti-Semitism, and the Nuremberg trials.

150 The American Experience (3) The history of the United States, with emphasis upon major themes, ideas, and developments — nationalism, sectionalism, imperialism, industrialism and others.

151 History of United States I (3) The social, economic, political, and intellectual development of the United States from the beginning of the Colonial period through the Civil War.

152 History of United States II (3) The social, economic, political, and intellectual development of the United States from 1865 to the present, with emphasis on the new industrialism and on foreign affairs.

166 20th Century America (3) A survey of the United States since 1898. Emergence of the nation as a world power is stressed.

167 Popular Culture in Twentieth-Century America (3) Survey of the history of modern American popular culture and arts, and their impact on our society. Popular literature, the

*Approved Distributive Requirement Course
†HIS 101-102—Approved two-semester substitute for distributive requirement.

motion picture industry, popular music and the mass media are explored.

300 Varieties of History (3) Historical research techniques. Methodology, historiography, and varieties of history. Required of all history majors.

301 History of South Asia (3) A historical study of developments on the Indian subcontinent (India and Pakistan), the course also considers those areas of Southeast Asia (Burma and Thailand) which have been traditionally influenced by the course of Indian events.

302 Modern India (3) Social, religious, and cultural underpinnings of modern India against a backdrop of the subcontinent's chronological development. Hindu and Muslim traditions discussed in terms of their own social, religious, and historical dynamics and as examples of complexities of Third World national integration.

305 Modern China (3) Survey of the historical and cultural background of China. Emphasis is given to the significance of China's modern period and its impact on world affairs.

306 Chinese Civilization (3) Study of dominant cultural, philosophical, and historical patterns which have influenced the development of China as it is today and the traditional way in which Chinese approach their own history.

308 Introduction to the Islamic World (3) Study of the religio-cultural heritage of the Islamic world against a historical background. Selected areas of Middle, South, and Southeast Asia will be utilized to illustrate flowering of Islamic arts, architecture, poetry. Includes geography component.

311 History of Africa to 1800 (3) A survey of the traditional culture and the historical development of the African continent prior to the 19th century. Emphasis is upon the length and diversity of Africa's history prior to European colonization.

312 History of Sub-Saharan Africa Since 1800 (3) A survey of Black Africa's developments in the 19th and 20th centuries. Emphasis is upon Africa's colonial experience as the background for the emergence of independent Africa.

315 History of Latin America to 1825 (3) Pre-Columbian period, colonial Latin America and movements for independence; Indian, European, and African backgrounds; government, economy, society, religion, culture, and enlightenment. Interaction of diverse cultures in New World.

316 History of Latin America Since 1825 (3) Latin America in 19th and 20th centuries; liberalism, conservatism, dictatorship, revolution, socialism, industrialization, agrarian reform, cultural-intellectual achievements, and international relations. Topical approach, using individual countries as case-history illustrations.

317 History of Mexico (3) Mexico from Pre-Columbian period to present including civilizations of Mayas and Aztecs, Spanish conquest, Colonial period, movement for independence era of Santa Ana, La Reforma, Diaz dictatorship, Mexican Revolution, cultural-intellectual achievements, international relations, and modernization of Mexico since the Revolution.

318 The Ancient World (3) Classical Greece and Rome with consideration of economic, social, intellectual, and political history. Selected writings of the ancients.

319 Medieval Europe (3) Western Europe from the fall of Rome to approximately 1300. Economic, social, political, and intellectual developments in the major kingdoms of the West; the history of the Universal Church.

320 Renaissance and Reformation (3) Political, economic, social, and cultural forces which emerged in Europe, 1300 to 1650. The evolution of modern states and the rise of the middle class.

323 Austrian Civilization (3) An interdisciplinary study of Austrian civilization, 1848–1938. Emphasis placed on fin-de-siecle Vienna, not only as pivotal to Austrian culture but also as a testing ground for modernism in the West.

324 Russian History to 1917 (3) Russian history from 9th century Kiev to the end of the Imperial period. Major emphasis on the continuing religious, economic, social, and political tradition peculiar to the Russian State.

329 Gender and Peace (3) Examination of the ways in which social constructions of gender intersect with perceptions and experience of war and peace.

330 Conflicts in Modern Europe (3) Power politics in Europe; alliances and counteralliances; imperialism; First World War and Versailles peace settlements; emergence of totalitarian ideologies.

331 20th Century Europe (3) European fascism and communism; totalitarianism confronts liberalism; interaction between domestic politics and foreign policy; polarization of European politics; disintegration of the political institutions of the traditional state.

333 European Economic History (3) European demographic and technological change; trade unions; agriculture; trade; the entrepreneur; distribution of income and welfare from 10th century to the present.

344 History of Pennsylvania (3) The founding and development of Pennsylvania from its Colonial beginnings to the present, with emphasis on the relation of the past to the present.

345 Oral History (3) An examination of contemporary history by making taped interviews of the reminiscences of people involved in recent political events; human right movements; local or national issues, etc.

348 The Bible in History (3) The Bible as are historical record. From the Pentateuch, through the prophetic literature, the Apocrypha, the Pseudepigrapha, the Dead Sea Scrolls to the New Testament. Historical records of the ancient Near Eastern civilizations will be compared with Biblical sources.

352 Modern American Military History (3) The role of the American military in shaping the course of the nation in the twentieth century.

354 U.S. Labor History (3) American labor from the colonial era to modern times. Examines labor and government, labor and law, labor and politics, labor and women, children and minority groups, labor and technology, real wages, and labor theory.

357 Diplomatic History of the United States (3) The theory and practice of American diplomacy from Colonial times to the present with emphasis on the 20th century.

358 Economic History of the United States (3) The economic development of the American nation as it evolved from a frontier, agricultural country into an urban, industrial power.

359 Depression Decade (3) An examination of the causes and consequences of the Great Depression, including business cycle theory, banking, technology, labor problems, the New Deal, and the contributions of the decade to modern American life.

360 Technology and American Life (3) Promises and practices of American life in response to the interaction of American forms, values and scientific-technological change from the Colonial period to the present.

361 Constitutional History of the United States (3) The development of the Constitution of the United States from the Philadelphia convention to the present with emphasis on major supreme court decisions.

362 Violence in America (3) A study of violence in American society both as an instrument of change and a method of social control.

364 U.S. Urban History (3) A survey of the rise of the American city from early Philadelphia to the modern metropolis. The recurring themes of growth, immigration, social mobility, city politics, city planning, urbanism, and suburbanism.

366 The Turbulent Sixties (3) Examination of the stress and conflict in American politics, arts, literature, and society of the 1960's.

370 American Indians (3) A survey of Indian civilization on the continent of North America and the confrontation of this civilization with white culture.

373 Afro-American History (3) The Afro-American: origins, period of slavery, industrialization of the South, migration to northern urban centers, civil rights movements, and the evolution of "Black Power."

◆399 Topics in History (3) Topics may vary each semester. Emphasis on student research and discussions.

400 Seminar (3) In-depth research, study, and discussion of a selected historical topic. Topics will vary. Recommended for seniors. Prerequisite: HIS 300.

406 Twentieth Century Japan (3) The course deals with Japan's role in Asian and world affairs from the Meiji Restoration of 1868 through the World War II period and concludes with an assessment of Japan's post-World War II role as an economic power positioned to re-emerge as a major political entity.

◆410 Independent Studies in History (1-3) Research projects, reports, readings in history. Open to seniors only. PREREQ: Permission of department chairperson.

411 Middle East to 1700 (3) The historical evolution of the Middle East from just before the time of Muhammad until 1700. The course seeks to promote an understanding of the nature and rise of the religion of Islam, the spread of Islamic civilization, and the evolution of the Arab and Ottoman empires.

412 Middle East Since 1600 (3) The historical evolution of the Middle East from 1600 to the present. The course seeks to promote an historically sound understanding of the conflicts and differences between Western and Middle Eastern societies, as well as the continuing interplay of secular and religious forces in the history of the region.

420 Biography of Modern European Women (3) A discussion of biography as a form of historical writing and writing about women.

421 History of England to 1688 (3) The British people and their institutions from Roman times to the Glorious Revolution with primary emphasis on the Tudor and Stuart periods.

422 History of England Since 1688 (3) England as a world leader during the Commercial and Industrial Revolutions, the evolution of the democratic process, and the emergence of liberalism followed by the democratic welfare state.

423 Modern Germany (3) Germany in the 19th and 20th centuries: Napoleonic era, rise of Prussia, nationalism and unification, imperialism

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◆ This course may be taken again for credit.

and World War I, National Socialism, World War II, and divided Germany.

425 Soviet Russia (3) Political, economic, social, and cultural aspects of Soviet society in the light of traditional Russian patterns and the goals of Communism.

426 History of Modern Italy (3) A study of Italian unification, the Era of Liberalism, Fascism, and post World War II developments.

427 Modern France: 1789 to Present (3) French Revolution; Napoleon; Bourgeois France; Third Republic; The Great War and Versailles; Nazism and the Popular Front; The Collapse of 1940; The Fourth Republic; The DeGaulle Era.

435 European Intellectual History Since 1800 (3) A cultural history of ideas in 19th and early 20th Century Europe.

447 Jesus and Marx (3) The relationship between Christianity and Marxism from the confrontation and contradiction of the nineteenth century to the coexistence and cooperation of the twentieth century.

♦450 Internship in History (1-3)

451 Women in America (3) American women's daily routines, social roles, and search for rights and identity since Colonial days. Recent goals, values, and conflicts.

455 American Intellectual History (3) Political and economic thought, theology, science, philosophy, literature.

458 History of the Cold War (3) Origins and evolution of the Cold War with emphasis on the rationale for and objectives of American foreign policy since 1945. Includes an examination of the historical interpretations of the era.

460 Field Studies in History (3) A fully-supervised learning experience designed to expose students to the culture, artifacts and research facilities of a given country or area.

462 Social and Cultural History of the United States (3) The evolution of American society with emphasis on the impact of improving material conditions upon labor, the arts, education, religion, social mores, and family life. The changing status of women, blacks, and immigrants.

474 American Religions (3) The comings and goings and changes of American religion from the Pilgrims of New England to the cults of California.

♦ This course may be taken again for credit.

Interdisciplinary Programs

Richard J. Webster, *Coordinator*

West Chester University offers two interdisciplinary programs leading to a Bachelor of Arts degree:

American Studies and

Comparative Literature Studies

and six interdisciplinary programs leading to transcript recognition:

Ethnic Studies

Latin American Studies

Linguistics

Peace and Conflict Studies

Russian Studies

Women's Studies

These programs offer students the opportunity to develop a synthesis of knowledge from several disciplines. Drawing upon professors from across the campus, the programs are directed by a Committee of Interdisciplinary Programs under the aegis of the Dean of the College of Arts and Sciences. See individual programs for course sequences.

American Studies Program

AMERICAN STUDIES COMMITTEE

Walter J. Fox, Jr., *English*
Patricia C. Johnson, *History*
Sterling E. Murray, *Music History*
C. James Trotman, *English*
Richard J. Webster, *History, Coordinator*
Ruth I. Weidner, *Art*

Students are introduced to a broad spectrum of American culture, encouraged to study in depth and to develop career interests through concentrations in American art history, black studies, historic preservation, environmental studies, journalism and editing, and museum studies. An optional internship provides on-the-job experience.

BACHELOR OF ARTS—AMERICAN STUDIES

1. General Requirements, see pages 31-33	51 s.h.
2. Foreign Language/Culture Requirements	15 s.h.
3. Required Core	21-33 s.h.
AMS 200	3 s.h.
LIT 200-201	6 s.h.
HIS 151-152	6 s.h.
AMS 300	3 s.h.
AMS 400	3 s.h.
or AMS 415	1-15 s.h.
4. Elective Core	18 s.h.

Six American-topic courses are to be taken in anthropology, art history, geography, history, literature, music history and literature, philosophy, political science, sociology, with no more than two courses from one discipline.

5. Elective Concentration
Enough courses to insure that a minimum of 128 semester hours are taken. Each American Studies major must submit for approval a proposed course of study at the beginning of the junior year. For guidance consult the American Studies Program coordinator.

American Studies Minor

For transcript recognition of an American Studies minor a student must take 18 semester hours in the following areas:

American Studies	6 s.h.
American History (preferably HIS 151 or HIS 152)	3 s.h.
American Literature (preferably LIT 200 or LIT 201)	3 s.h.
American topics (One course from the arts, literature, or philosophy. One course from history or social and behavioral sciences, or other courses approved by the advisor.)	6 s.h.
	18 s.h.

COURSE DESCRIPTIONS
AMERICAN STUDIES
Symbol: AMS

#200 American Civilization (3) An interdisciplinary study of the forces, forms, and values that have contributed to the making of American civilization. Several academic disciplines are drawn upon in exploring the "Americaness" of American institutions, thought, behavior, and material culture.

#210 Mass Media and Popular Culture (3) An exploration of the role of media in the development of American popular culture. Particular emphasis will be given to the transformations brought about by mass media after 1880 and the increasing corporate involvement in mass media during the twentieth century.

300 American Material Culture (3) An interdisciplinary study of American civilization through the examination of its built environment and crafted and manufactured artifacts from the Colonial period to the mid-twentieth century.

305 American Decorative Arts (3) Study of decoractive and utilitarian objects of the American household environments from the Colonial period through World War I.

400 Senior Thesis or Project (3) A concluding "statement" incorporating the interdisciplinary generalist approach.

401 Independent Study (1-3) An opportunity to pursue alternative outside-the-classroom study projects; field work in community resources, etc.

♦415, 416 American Studies Internship I, II (3-6) Cooperative service-learning experience at a community agency, business or institution.

Approved Interdisciplinary Course.
♦This course may be taken again for credit.

Comparative Literature Studies Program

Kostas Myrsiades, *Coordinator*

PROFESSORS: Gutwirth, Myrsiades

ASSOCIATE PROFESSORS: Kelly, Ward

ASSISTANT PROFESSORS: Awuyah, Ramanathan, Schlau

This program provides a curriculum option for students with an interest in international studies by offering a broad background in European and non-Western culture and literature. This program is responsive to recent developments in professional business, law, and medical schools which stress admission of students with humanities backgrounds or humanities complements to their scientific or technical backgrounds, and it reflects the growth of professional school programs that include more options in the humanities.

More specifically, this program is designed to answer student requests for a program that supplies a greater breadth of literature than is commonly offered in a language program and a greater variety than that offered in an English department.

BACHELOR OF ARTS—COMPARATIVE LITERATURE STUDIES

1. General Requirements — 51 s.h.
2. Foreign Language Requirement — 12 s.h.
3. Related Course Requirements — 18 s.h.
   (Second language or minor)
4. Cognate Requirements — 12 s.h.
   (Courses related to student's major area of concentration.)
5. Comparative Literature Core — 15 s.h.
   (CLS 200, CLS 261, CLS 310, CLS 367, CLS 400)
   (A grade point average of 3.0 is required for these courses.)
6. Comparative Literature Electives — 15 s.h.
   Five electives that reflect a variety of genres, periods, traditions, approaches, and theoretical concerns, selected from those listed below. Students wishing to take courses other than those listed below must have the written approval of the Comparative Literature Committee.
7. Literature in the Original Language — 6 s.h.
   Two semester courses in the literature of a language other than English.

THE COMPARATIVE LITERATURE MINOR:

15 credit hours
*Select ONE course in each of the areas listed below.

1. Literature and the other arts
   (CLS 200, CLS 201, CLS 368, CLS 370)
2. Theory, intellectual history, or literary criticism
   (CLS 310, CLS 364)
3. Theme, genre, or movement
   (CLS 358, CLS 359, CLS 361, CLS 362)
4. Relationship, influence, or intertextuality
   (CLS 304, CLS 309, CLS 363, CLS 367, CLS 400)
5. Non-Western literature or literature in a language other than English
   (CLS 360, CLS 400, CLS 411)

Total: 15 credit hours

*NOTE: Not all course numbers available for each category above are listed. Please check with the Comparative Literature Studies coordinator in Main 544 (215-436-2901) for other possible substitutions.

Film Criticism Minor

1. Required Course: FLM 200 — 3 s.h.
2. Elective Courses — 15 s.h.
   Any five courses on film selected from FLM and/or CLS offerings.

COURSE DESCRIPTIONS
COMPARATIVE LITERATURE STUDIES
Symbol: CLS

***165 Introduction to World Literature (3)** This course acquaints students with the "master pieces" of Western literature from classical antiquity to the present. This course can be taken as an alternative to LIT 165.

200 Interrelations of Comparative Literature (3) This course investigates the relationship between literature and art, film, philosophy, and critical theory.

***#201 Classical Mythology in the 20th Century (3)** Classical myths and their significance in selected works of literature, film, and art.

†260 Continental Literature I (3) Literature of continental Europe from classical times through the Renaissance.

†261 Continental Literature II (3) Literature of continental Europe from Neoclassicism to the present.

297 Themes in Contemporary Literature Topics to be announced each time course is offered.

304 Women and Film (3) An examination of the role of women in contemporary world cinema and the feminist film.

309 Literature Translation Workshop (3) A writing workshop on the theory and practice of literary translation.

310 Contemporary Literary Criticism (3) A survey of the major developments in European literary criticism during the 20th century with emphasis on the developments of the last 20 years.

350 Computer Applications in the Humanities (3) This course is designed to provide an introduction to the computer and its applications in a number of humanistic disciplines (literature, history, and writing, but some attention will also be given to foreign languages, linguistics, music, and art.)

358 Women in Western Literature (3) An inquiry reaching back into classical antiquity for

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*Approved Distributive Requirement Course
†Approved two-semester substitute for distributive requirement
#Approved Interdisciplinary Course

some prototypes of women in the literature of the West. Readings from Aeschylus, Sophocles, Aristophanes, Euripides, Ovid, Dante, Petrarch, Shakespeare, Moliere, Austen, Flaubert, James, Tolstoy, Shaw, Cather, Giraudoux, others.

359 Women in Modern Fiction (3) Readings, analysis and discussion of works of contemporary fiction which present major depictions of women by authors such as Sarraute, Duras, Böll, Walker, Kundera, Morrison, Woolf, etc.

360 Literature of Modern China (3) A survey of the literature of the People's Republic of China.

361 Modern Continental Drama (3) A consideration of the chief writers who influenced the modern drama: Ibsen, Strindberg, Chekhov, Hauptmann, Pirandello, Sartre, Brecht, and Ionesco.

362 Modern Continental Fiction (3) Important modern European writers in translation: Flaubert, Dostoevsky, Unamuno, Gide, Mann, Kafka, Camus, Sartre, and Moravia. Their aesthetic and philosophical contributions to modern fiction.

363 Soviet and Eastern European Literature (3) A comparative approach to selected 20th century works of fiction, poetry, and drama.

364 Soviet and Eastern European Film (3) A critical-analytical approach to Soviet and Eastern European film covering major movements and theory since WWII.

367 Classical Mythology (3) An examination of Greek mythology through the works of Homer, Hesiod, the Greek tragedians, and Greek lyric poets.

368 Literature, Myth and Film (3) The influence of Greek mythology on contemporary Western literature and film.

369 Literature and Film (3) The interrelation between selected works of world fiction and their film adaptations.

370 Literature, Medicine and the Arts (3) A course treating the study of literary works, film, and selected readings from other areas (history, science, fiction, non-fiction) to generate an understanding of the relationship of human values to medicine, illness, and issues of related importance to physicians.

◆400 Comparative Literature Seminar (3) Topics, such as Beckett/Joyce, Homer/Joyce, Greek Comedy, Greek Tragedy, Myth and Film, are offered periodically. Required of comparative literature majors in their junior or senior year.

410 Independent Study in Comparative Literature (3)

411 Foreign Study in Comparative Literature (3)

FILM THEORY AND CRITICISM
Symbol: FLM

200 Introduction to Film (3) A critical-analytical approach to world cinema covering film theory and the major film movements (Soviet Realism, German Expressionism, Italian Neo-realism, French New Wave, Cinema Nuovo, New German Cinema, and Surrealism) from the beginning to present. (Group E)

201 American Film (3) The function of cinema in contemporary society as a socio-cultural, economic and political object, as seen through critical analysis of American films. (Group E)

300 Private Screening (1) Eight to twelve narrative film classics per semester on a specific topic or theme.

301 Documentary Film (3) Understanding and enjoying the social, philosophic, economic, and political aspects of documentary film. (Group E)

* For course descriptions see English and Foreign Languages. For related courses in departments other than English and Foreign Languages consult the *Handbook for Comparative Literature Studies* available in Main 544.

Ethnic Studies Program

Bonita Freeman-Witthoft, *Director*
C. James Trotman, *Afro-American Coordinator*
Stacey Schlau, *Hispanic-American Coordinator*
Ralph Eisenstadt, *Jewish-American Acting Coordinator*

STEERING COMMITTEE:

Marshall J. Becker, Erminio Braidotti, Mary Crawford, Andrew E. Dinniman, Stephen D. Gilmour, William I. Guy, Mildred C. Joyner, Deborah Malstedt, Dimitri I. Monos, Robert Schick, Phillip D. Smith, Jerome M. Williams, Robert J. Young

The Ethnic Studies Institute (ESI) offers a minor and a certificate to any student, regardless of major, who satisfactorily completes 18 semester hours of work in ethnic studies. Study may lead to a general certificate in ethnic studies or to a specialized certificate in one of the following areas:

- African-American Studies
- Hispanic-American Studies
- Jewish-American Studies
- Native American Studies

For current requirements and a list of approved courses in each specialization, consult the director of ethnic studies.

For each option presently offered there are, in addition to the relevant ethnic studies core courses, certain cognate courses. These cognate courses do not necessarily deal directly with ethnic group life but give an added dimension of social and historical background.

As soon as possible, students should register their intent to earn the minor with the director of the Institute for Ethnic Studies (Old Library). At the end of each semester, students should report to the director the ethnic-related courses completed during the semester and the courses planned for the following semester. An updated list of courses approved for credit is available each semester before the advising and scheduling period from the Institute for Ethnic Studies. Students can use an approved ethnic-related course towards the completion of the Certificate of Ethnic Studies at the same time it is being used to fulfill their major, minor or elective requirements.

Students are encouraged to attend at least two cultural ethnic events—speakers, musical programs, art shows, theatre productions, films—each year.

FOR ADVISING IN ETHNIC STUDIES, CONTACT BONITA FREEMAN-WITTHOFT, OLD LIBRARY.

MINOR IN HOLOCAUST STUDIES

Students obtaining a minor in Holocaust Studies must take 18 hours in the following courses:

HIS 145, 146, 423; LIT 304; PHI 180; PSC 322; SSC 385, 480

The program in Holocaust studies deals not only with historical aspects of the Holocaust but also with moral and political issues involved in the prevention of future holocausts.

This minor may be taken as a concentration by students in the Associate of Arts in liberal studies program or as one of the minors in the Bachelor of Arts or Bachelor of Science in liberal studies general degree program.

FOR ADVISING IN HOLOCAUST STUDIES, CONTACT IRENE G. SHUR IN MAIN HALL.

COURSE DESCRIPTIONS
ETHNIC STUDIES
Symbol: SSC
◆385 Holocaust Workshop (3)
◆480 Ethnic Cultures Workshop (3)
This workshop considers the history, traditions, customs and contributions to American life of various ethnic groups. The lectures and special programs are designed to increase the student's knowledge of the multiculture nature of American society. Projects, specifically tailored to individual needs, are directed by a faculty member of the Ethnic Studies Institute of West Chester University.

◆This course may be taken again for credit.

Latin-American Studies Program

Erminio Braidotti, *Coordinator*

Any student in the University, regardless of his or her area of specialization, may earn a minor and a letter of verification in Latin-American Studies after satisfactory completion of 18 semester hours of work, distributed as follows:

LATIN AMERICAN STUDIES

Required: Either A or B 18 s.h.

A. 1. Spanish or Portuguese (Intermediate level or above) 6 s.h.
2. Latin-American History 6 s.h.

OR

B. 1. Latin-American History 6 s.h.
2. Latin-American Civilization and Thought 6 s.h.

Electives: As advised, from Latin-American oriented courses offered by the Departments of Anthropology and Sociology, Geography and Planning, Political Science, Economics, Art, or other departments of West Chester University. In track A, one three-credit course must be devoted to literature, art history, or music. 6 s.h.

For advising, see Professor Braidotti in the Department of Foreign Languages or Professor Crowley in the Department of History.

A student should maintain a 2.5 average in area-studies courses to be recommended for graduate work in the area-studies concentration.

Linguistics Program

Dennis L. Godfrey, *Coordinator*

CONTRIBUTING FACULTY

Diane O. Casagrande, *Speech Communication and Theatre*

W. Stephen Croddy, *Philosophy*

Stephen D. Gilmour, *Foreign Languages*

John T. Kelly, *English*

Garrett G. Molholt, *English*

Frederick R. Patton, *Foreign Languages*

Philip D. Smith, Jr., *Foreign Languages*

Paul A. Stoller, *Anthropology and Sociology*

Andrea Varricchio, *Foreign Languages*

Michael S. Weiss, *Communicative Disorders*

The minor in linguistics is an interdisciplinary program contributed to by the Departments of Anthropology and Sociology, Communicative Disorders, English, Foreign Languages, Philosophy, and Speech Communication and Theatre. Its purpose is to provide the student with a foundation in the analysis of the various aspects of language. Students wishing to enter the program must consult Dr. Godfrey. To receive credit for the minor in linguistics, a student must complete 18 semester hours of course work. The coordinator must approve all courses.

MINOR—LINGUISTICS

1. Required Courses 9 s.h.
ENG/LIN 230, ENG 335 (or any other historical linguistics course), ENG 331 (or any other structural grammar course)
2. Electives 9 s.h.
A. Choose one of the following:
ENG 330, FRE 365, GER 365, RUS 365, SPA 365, SPP 106, or any other approved course in phonology or phonetics.
B. Choose one of the following:
ENG 339, ENG 340, LIN 250, ANT/LIN 380, PHI/LIN 330, PHI/LIN 360, SPC/LIN 415, or any other approved comparable course.
C. Choose an additional course from either Group A or B above or choose one of the following:
ENG 430, LAN 250, LIN 411, LIN 412, LIT 430, LIT 431, PHI 190, PHI 436, PHY 110, SPC 350, SPP 107, or any other approved linguistics course.

For descriptions of courses under this program, see Anthropology and Sociology (ANT); Communicative Disorders (SPP); English (ENG or LIT); Foreign Languages (LIN, FRE, GER, RUS, SPA); Philosophy (PHI); Physics (PHY), Speech Communication and Theatre (SPC).

Peace and Conflict Studies Program

Frederick R. Struckmeyer, *Director*

Peace and conflict studies examine social conflict, conflict resolution and cooperation at the group, national, and international levels. This process involves understanding factors which contribute to peace with justice, various functions of conflict, and processes by which conflict may be managed. The minor fosters skills for both study and action. Though primarily an enrichment to liberal education, this minor is relevant to a variety of careers including intergroup relations, criminal justice, social work, social change, and international relations.

The peace and conflict studies minor consists of 18 credit hours, some of which may also be used to fulfill other degree requirements. This minor may be taken as a concentration by students in the Associate of Arts in liberal studies program or as one of the minors in the Bachelor of Arts or Bachelor of Science in liberal studies general degree program.

These courses include:

1. Conflict Resolution in Society, SSC 200
2. Experiential Learning (3): Internship or SPC 216 or SPC 403
3. Global Perspectives (3): PSC 315 or PSC 316 or SOC 376
4. Themes and Special Approaches (3): SOC 371 or SOC 335 or SPC 409 or SCC 370 or WOS 329
5. Electives from approved list.

Information about the minor may be obtained from Professor Struckmeyer, Department of Philosophy.

COURSE DESCRIPTION
#SSC200 Conflict Resolution in Society (3)
An interdisciplinary study of the causes and functions of societal conflict and processes of controlling conflict

Approved Interdisciplinary Course.

Russian Studies Program

Frederick Patton, *Coordinator*

Offered jointly by the faculty of Arts and Sciences and the faculty of Professional Studies.
Any student in the University, regardless of his or her area of specialization, may earn a minor specialization in Russian Studies after satisfactory completion of 18 semester hours of work, distributed as follows:

RUSSIAN STUDIES	18 semester hours
Required: Either A or B	
A. 1. Russian Language (intermediate level or above)	6 s.h.
2. Russian History and/or Politics	6 s.h.
OR	
B. 1. Russian History and/or Politics	6 s.h.
2. Russian Civilization, Culture and/or Politics	6 s.h.
Electives:	6 s.h.

As advised, from Russian-oriented courses offered by the Departments of Political Science, Anthropology and Sociology, English, Art or other departments of WCU. In track A, one three-credit course must be devoted to literature, art, history, or music.

For advising, see Professor Patton in the Department of Foreign Languages.

A student should maintain a 3.0 average in area-studies courses to be recommended for graduate work in the area-studies concentration.

Russian Studies Courses

Russian Culture (Soviet period) (ERU 209)
Russian Art (ARH 405)
The Soviet Union (GEO 304)
Russia to 1917 (HIS 324)
Soviet Russia (HIS 425)
Soviet Politics (PSC 246)
Soviet Foreign Policy (PSC 311)
Comparative Communism (PSC 349)
Soviet and East European Literature (CLS 363)
Contemporary Film (Russian and Eastern European) (FLM 302)
Russian Literature in Translation (RUS 310)
All Russian language courses numbered 201-412 (RUS)

Women's Studies Program

Stacey Schlau, *Coordinator*

STEERING COMMITTEE: Emma Lee Brown, Diane Casagrande, Mary Crawford, Mary Ann Duffy, Anne Dzamba, Robin Garrett, Madelyn Gutwirth, Patricia Johnson, Mary Keetz, Elizabeth Larsen, Deborah Mahlstedt, Mary McCullough, Lynette McGrath, Tahany Naggar, Carol Radich, Geetha Ramanathan, Arlene Rengert, James Trotman, Richard Webster.

The Women's Studies Program consists of an interrelated group of courses offered in a wide variety of academic disciplines. The program operates under the supervision of the Women's Studies Steering Committee. This program is envisaged both as an enrichment to liberal education and as a pre-professional study. The social transformation that is taking place both in society and in intellectual life is making study in this area an asset in many arenas.

The aim of the program is to integrate the perception and experience of women into the curriculum and to encourage inquiry into previously neglected areas, such as women's history, women's literature and art, female psychology, and woman's position in society.

Women's Studies Courses

HEA/NSG 109	Health Issues of Women
LIT 204	Black Women Writers
WOS 225	Introduction to Women's Studies
LIT 274	Feminist Poetry
WOS 275	Special Topics in Women's Studies
PSC 301	Women in Politics
ECO 303	Women and Economics
FLM 304	Women and Film
WOS 315	Third World Women
WOS 320	Independent Study
HIS/LIT/WOS 329	Gender and Peace
SOC 346	Sociology of Sex Roles
CLS 358	Women in Western Literature
CLS 359	Women in Modern Fiction
PSY 365	Psychology of Women
PED 380	Women and Sport
WOS 400	Internship
WOS/PHI 405	Feminist Theory
FRE 409	Women and Men in French Literature
WOS 410	Senior Colloquium
WOS 415	Senior Project
ARH 419	Women in Art: Madonna or Model
HIS 420	Biography of European Women
HIS 451	Women in America

These courses are open to all students as free electives under general requirements. With permission of their departments,

students may also take these courses as electives within their major or minor programs.

Minor in Women's Studies

A women's studies minor consists of 18 credit hours, no more than nine of which may be taken in a single department. Two courses are required for the minor: WOS 225 (Women Today), and either WOS 405 (Feminist Theory), WOS 410 (Senior Colloquium), or WOS 415 (Senior Project). Other courses may be chosen from the list of women's studies offerings. Transcript recognition will be awarded upon completion. This minor may be taken as a concentration by students in the Associate of Arts in liberal studies program or as one of the minors in the Bachelor of Arts or Bachelor of Science in liberal studies general degree program.

For advising in Women's Studies, contact Dr. Stacey Schlau, Main 211.

Descriptions of WOS courses in women's studies appear below. See departmental listings for all other courses.

COURSE DESCRIPTIONS
WOMEN'S STUDIES
Symbol: WOS

#225 Women Today: An Introduction to Women's Studies (3) An interdisciplinary course designed to enable students to analyze various kinds of statements on women, to question the implications of changing cultural patterns, and to sample, first-hand, efforts for change. Satisfies interdisciplinary requirement.

275 Special Topics in Women's Studies (3) Selected (and changing) topics, e.g. Ethnic Racial Women; Women in the Workplace; Love, Marriage, and Divorce.

#315 Third World Women (3) This course will examine the nature of women's lives in the Third World, focusing on such topics as family, education, health, development policies, and political change. Geographic areas studied include Africa, Asia, Latin America, and the Middle East.

320 Independent Study (3) Independent research and study for upper-division students. Topic to be approved by supervising faculty member. PREREQ: WOS 225

#329 Gender and Peace (3) An examination of the ways in which social constructions of gender intersect with perceptions and experience of war.

400 Internship (3) This course is designed to allow students the opportunity to put into practice outside the academic setting the knowledge regarding women's experiences gained in other courses. Some possible sites might be a women's health clinic, a business, a newspaper, a social service agency, or an electoral campaign. There will be both an on-site and a faculty supervisor. PREREQ: WOS 225 and two other women's studies courses.

#405 Feminist Theory (3) Designed to introduce and discuss basic questions in contemporary feminist theory, the course will explore different philosophies of feminism and include such issues as motherhood, intersections with other theories of oppression, and body politics. PREREQ: WOS 225 or permission of the instructor.

410 Senior Colloquium (3) This is one of the choices for the final required course for the minor. Sample topics include: global feminism; mothering; the experience of women of color; feminist utopias.

415 Senior Project (3) Preparation of research in any area of women's studies, to be decided by student and advisor. Supervision includes exercises in method and bibliography. Usually, a lengthy research paper will be the final result.

Approved Interdisciplinary Course.

Liberal Studies Program

Ronald F. Romig, *Director*

In addition to programs leading to baccalaureate degrees in specific academic fields, the University offers a degree in liberal studies. The program is designed for either traditional or non-traditional students who seek a general education, or who desire to build majors which cut across traditional disciplinary lines. An Associate of Arts degree in liberal studies is available to students seeking a two-year degree.

Typically, the liberal studies student selects the undeclared major if entering the University as a freshman. After completing at least 32 semester hours, and after achieving a minimum grade point average of 2.0, the student may request an interview with the director of liberal studies for the purpose of planning a curriculum within one of the three available tracks. Students may enter the Liberal Studies Program from other majors of the University, or as transfers from other colleges, by the same process and by meeting the same requirements. It is University policy that no student, whether presently enrolled at West Chester or attempting to be admitted from another university, is permitted to enroll in the Liberal Studies Program after earning 80 semester hours.

Three advisement tracks within two separate baccalaureate degrees are available. The Bachelor of Arts in liberal studies—liberal arts and sciences track is designed principally for students who are interested in a general education with no specific orientation toward career preparation. Alternatively, either the Bachelor of Arts in liberal studies—specialized career preparation track, or the Bachelor of Science in liberal studies—science and mathematics emphasis track will be more useful to the student who is seeking to construct a career-centered major which is not otherwise available at West Chester University.

BACHELOR OF ARTS IN LIBERAL STUDIES—LIBERAL ARTS AND SCIENCES TRACK

1. University General Requirements (MAT 105, 121, or a calculus course) 51 s.h.
2. Foreign language through the fourth semester 0-12 s.h.
3. Liberal studies breadth requirements (language culture cluster, natural and computer sciences, behavioral and social sciences, humanities and communications, the arts) 45 s.h.
4. Arts and sciences electives of the student's choice at the 300-400 level, but no more than three courses from any one department. 20-32 s.h.
5. At least one minor offered by the the College of Arts and Sciences or by the Departments of Economics, Political Science, or Music.

Students in the liberal arts and sciences track have the option of using up to six semester hours of their arts and sciences electives as Liberal Studies Senior Thesis (LST 490) credits. Interested students should consult with the program director well before earning 80 semester hours about procedures for pursuing the senior thesis.

BACHELOR OF ARTS IN LIBERAL STUDIES—SPECIALIZED CAREER PREPARATION

1. University General Requirements (MAT 105, 121, or a calculus course) 51 s.h.
2. Foreign language through the fourth semester 0-12 s.h.

3. Liberal studies breadth requirements (natural sciences, behavioral and social sciences, humanities and communications, the arts) 24 s.h.
4. Career preparation electives of the student's choice, but no more than three courses from any one department. 30 s.h. of these must be at the 300-400 level. 41—53 s.h.
5. At least one minor offered by a department associated with the student's career interest.

BACHELOR OF SCIENCE IN LIBERAL STUDIES—SCIENCE AND MATHEMATICS EMPHASIS

1. University General Requirements (MAT 105, 121, or a calculus course) 51 s.h.
2. Liberal studies breadth requirements 15 s.h.
3. Science and mathematics cognate requirements
   Eight s.h. in any four of the following departments: Biology (BIO 110 or above), Chemistry (CHE 103 and CRL 103 or above), Geology/Astronomy (ESS 355, 330, 336, 340), Physics (PHY 130 or above), Mathematics (MAT 110 or above, or CSC 115 or above) 32 s.h.
4. Liberal studies electives of the student's choice. Twenty s.h. must be at the 300-400 level. 30 s.h.
5. At least one minor selected from the Departments of Biology, Geology / Astronomy, Physics, or Mathematics.

ASSOCIATE OF ARTS—LIBERAL STUDIES

The University offers a program of studies leading to the degree of Associate of Arts in liberal studies. This program is especially suited for students who want a solid two-year foundation from which to move into a wide variety of fields including business, the sciences, and public service. Many students have also used the associate degree as a means of introducing themselves to the university setting, and then later building on it toward the completion of a baccalaureate degree.

The program consists of a set of general education courses and 15-21 semester hours in an area of concentration. The specific requirements and areas of concentration are outlined on page 33. Students who elect one of these areas of concentration receive their academic advice from a faculty member of the program or department responsible for that area of concentration with guidance and assistance from an advisor in the Office of Liberal Studies.

University policy prohibits a student from entering the Associate of Arts degree after having earned 50 semester hours of credit.

COURSE DESCRIPTION
LIBERAL STUDIES

LST 490 Senior Thesis (3-6) Directed research in an interdisciplinary subject of the arts and sciences. For students selecting the senior thesis option within the B.A. liberal studies arts and sciences track. PREREQ: Permission of the director of liberal studies.

Department of Mathematics and Computer Science

John W. Weaver, *Chairperson*
Frank Milliman, *Assistant Chairperson*

PROFESSORS: Branton, Fabrey, Filano, Grosshans, Koh, L'Heureux, Mandelbaum, Montemuro, Weaver

ASSOCIATE PROFESSORS: Ahlborn, Gupta, Kerrigan, Milito, Milliman, Morgan, Moser, Seybold, Szymanski, Tan, Verno, Wolfson, Wyatt

ASSISTANT PROFESSORS: Edelman, Horton, Horvath, Schremmer, Wiener

The Department of Mathematics and Computer Science offers two programs leading to the Bachelor of Arts degree in mathematics, two programs leading to the Bachelor of Science degree in computer and informational sciences, and a program leading to the Bachelor of Science in Education.

1. The B.A. in MATHEMATICS enables each student to receive the basic preparation for the career of his/her choice, such as college teaching, research and other service in industry and government, and computer programming. In all cases, the student receives a sound preparation for graduate study in the field of mathematics.
2. The B.A. in MATHEMATICS: COMPUTER SCIENCE offers the student interested in both mathematics and computer science an opportunity to study both disciplines.
3. The B.S. in COMPUTER AND INFORMATION SCIENCES requires course work in computer science, mathematics and business. In addition, the student gains valuable experience on the job through an internship program with local industry and business. Normally, this program requires attendance during one summer session in addition to the eight academic semesters. The informations systems track prepares the student to use the computer as a tool for management in business and industry (systems analyst). The computer systems track prepares the student to engage in the design, development and effective use of computer systems through emphasis on software and computer system structure (systems programmer).
4. The B.S. in EDUCATION in MATHEMATICS focuses on a heavy concentration in mathematics while the student earns state certification to teach secondary school mathematics.

Majors in all these areas should consult the appropriate department handbook and review with their advisors current requirements listed on the guidance record sheets.

REQUIREMENTS COMMON TO THE B.A. PROGRAMS

1. General Requirements 51 s.h.
2. Foreign Language Requirement 0-12 s.h.
3. Related Requirements: 7 s.h.
   CSC 141; PHY 170
4. Major Requirements: 29 s.h.
   MAT 110, 161, 162, 211, 261, 262, 343, 411, 421

BACHELOR OF ARTS—MATHEMATICS

1. Additional Major Requirements 3 s.h.
   MAT 232
2. Electives in Mathematics 12 s.h.
   Selected from upper-division mathematics courses
3. PHY 180 4 s.h.

BACHELOR OF ARTS—MATHEMATICS WITH COMPUTER SCIENCE CONCENTRATION

1. Additional Major Requirements: 15 s.h.
   MAT 425; CSC 142, 241, 242, 490 (3 s.h.)
2. Electives in Mathematics 6 s.h.
3. Electives in Computer Science 6 s.h.

BACHELOR OF SCIENCE—COMPUTER AND INFORMATION SCIENCES

1. General Requirements 51 s.h.
2. Core Curriculum
   Computer Science Requirements 20 s.h
   CSC 141, 142, 241, 242, 361 and five approved language labs
   Mathematics Requirements 15 s.h.
   MAT 161, 162, 221, 281
   Natural Science Requirements 9 s.h.
   One semester each of three different natural sciences
   Cooperative Experience 13 s.h.
   CSC 300, 400
3. Information Systems Track Requirements 27 s.h.
   CSC 321; ACC 201-202; MGT 301; MKT 301; ECO 111; ENG 368; and six s.h. of approved electives in business, computer science or mathematics.
4. Computer Systems Track Requirements 21 s.h.
   CSC 331, 341; ACC 201; ENG 368; and nine s.h. of approved electives in computer science and mathematics.

BACHELOR OF SCIENCE IN EDUCATION

1. General Requirements 51 s.h.
2. Mathematics Requirements 38 s.h.
   MAT 110, 161, 162, 211, 231, 261, 262, 343, 350, 354 (credited to professional education), 411, 421
3. Professional Education Requirements 27 s.h.
   EDF 100; EDP 250; EDM 300; EDP 351; EDS 306; EDS 411-412
4. Related Requirements 11 s.h.
   PHY 170-180; CSC 141
5. Electives in Mathematics 9 s.h.
   Selected from upper division mathematics courses

MINOR IN MATHEMATICS

Baccalaureate students may receive transcript recognition for a minor area of study in mathematics by completing four required courses and two electives selected from the approved list.

Required Courses

MAT 105 or 110, 161, 162, 211

Approved Electives: Select two

MAT 232, MAT 343, MAT 411, MAT 421

ADVANCED PLACEMENT POLICY

A score of three on the Mathematics Advanced Placement Exam of the College Boards will allow a mathematics major to begin his/her studies with MAT 162. MAT 110 may or may not be taken at the discretion of the student. Students who are granted advanced placement of 4-8 s.h. take 4-8 additional s.h. of electives in mathematics.

COURSE DESCRIPTIONS
MATHEMATICS
Symbol: MAT

MAT 000 **Fundamentals of Algebra (3)** A preparatory course to remediate basic arithmetic and algebraic skills. Students scoring below 450 on the mathematics SAT and who do not pass the mathematics test during their orientation program are placed in this course prior to any other mathematics course. Credits earned in 000 level courses do not count towards the 128 hours of credit needed for graduation. The course must be passed with a grade of C-minus or better, or repeated.

001 **Fundamental Skills in Arithmetic (3)** A course designed to remediate basic arithmetic skills and to introduce elementary algebra. In general, students placed in MAT 001 have scored below 400 on the math SAT and have not taken high school algebra. Students are being prepared to take Fundamentals of Algebra and must earn at least a "C−" to enroll in that course. A student in MAT 001 does not earn credit towards graduation for this course.

101-102 **Mathematics for Elementary Teachers I-II (3) (3)** Formal development of the natural numbers, integers, rationals, reals, and complex numbers; probability; intuitive geometry. 101 must precede 102. For elementary education majors only.

103 **Introduction to Mathematics (3)** An introduction to the nature and spirit of mathematics and its cultural significance. Designed for general education.

105 **College Algebra and Trigonometry (3)** A unified course in algebra and trigonometry. PREREQ: High school algebra.

107 **College Algebra (3)** A thorough treatment of college algebra. Topics covered include the study of polynomial, exponential, and logarithmic functions, plus systems of linear equations. PREREQ: SAT score of 450 or above, or passing a placement test, or obtaining at least a C-minus in MAT 000.

108 **Survey of Calculus for Business (3)** An intuitive approach to the calculus of one and two variables with emphasis on business applications. PREREQ: MAT 107 or MAT 105.

110 **Foundations of Mathematics (3)** A precalculus course. Topics include polynomials, rational functions, inverse functions, theory of equations, circular functions, arithmetic and geometric series, mathematical induction, complex numbers.

121 **Statistics (3)** Basic concepts of statistics. Frequency distributions, measures of central tendency and variability, probability and theroretical distribution, significance of differences, and hypothesis testing. For non-mathematics majors.

MTL 121 **Statistics Lab (1)** Introduces the student to using and programming the computer to solve statistical problems and to aid the student in understanding statistical concepts. The BASIC language is used.

161 **Calculus I (4)** Differential and integral calculus of real-valued functions of a single real variable, with applications. PREREQ: Good working knowledge of high school algebra and trigonometry demonstrated by a math SAT score of 650 or above, or a C-minus or above in MAT 105 or MAT 110.

162 **Calculus II (4)** Continuation of MAT 161 including the study of series, methods of integration, transcendental functions, and applications to the sciences. PREREQ: MAT 161.

209 **Topics in Mathematics for the Elementary Teacher (3)** Introduction to programming in BASIC; computer uses for the classroom teacher; descriptive statistics with applications for teaching; and measurements of length, area, volume and temperature that focus on the SI metric system with practice in the classroom. Additional topics in applied mathematics will be considered. PREREQ: MAT 102. Offered in fall.

211 **Linear Algebra (3)** An introduction to linear algebra. Topics covered include matrices, systems of linear equations, vector spaces, linear transformation, determinants, eigenvalues, spectral theorem and triangulation.

212 **Algebra for Elementary Teachers (3)** Formal structure of groups, rings, and fields with examples from the elementary curriculum. Topics from linear algebra including matrices, determinants, and linear programming. PREREQ: MAT 102.

221 **Applied Statistics (3)** Probabilities, discrete and continuous probability distributions, methods of estimation and hypothesis testing. PREREQ: CSC 141 (or equivalent) and MAT 162 (or equivalent).

231 **Foundations of Geometry (3)** Geometric foundations from an advanced viewpoint. Topics are chosen from euclidean and non-euclidean geometrics. Offered in spring.

232 **Differential Geometry (3)** Classical differential geometry from a modern viewpoint. Curves and surfaces; shape operators; introduction to Riemann geometry. PREREQ: MAT 262.

233 **Geometry for Elementary Teachers (3)** Modern informal approach to two- and three-dimensional geometric figures, measurement, similarity, congruence, coordinate geometry and the postulational method. PREREQ: MAT 102.

261 **Calculus III (3)** The calculus of several variables. Topics include polar coordinates, vectors and three-dimensional analytic geometry, differentiation of functions of several variables, multiple integrals, line and surface integrals. PREREQ: MAT 161 and MAT 162.

262 **Calculus IV (3)** The calculus of vector-valued functions of a vector variable. Derivatives and properties of the derivative including the chain rule; fields and conservative fields; integration; Green's, Stokes', and Gauss' theorems. PREREQ: MAT 261.

281 **Discrete Mathematics (4)** This course is designed to provide a foundation for the mathematics used in the theory and application of computer science. Topics include mathematical reasoning, the notion of proof, logic, sets, relations and functions, counting techniques, algorithmic analysis, modelling, cardinality, recursions and induction, graphs, and algebra. PREREQ: MAT 162.

321 Combinatorics and Graph Theory (3) Introduction to set theory, graph theory and combinatorial analysis. Includes relations, cardinality, elementary combinatorics, principles of inclusion and exclusion, recurrence relations, zero-one matrices, partitions, and Polya's Theorem. PREREQ: CSC 101 or CSC 141 and MAT 281 or MAT 262.

343 Differential Equations (3) The general theory of nth order, linear differential equations including existence and uniqueness criteria and linearity of the solution space. General solution techniques for variable coefficient equations, series solutions for variable coefficient equations, and study of systems of linear equations. PREREQ: MAT 261. Offered in spring

349 Teaching Mathematics in Early Childhood (3) Concepts, learning aids, syllabi, texts, and methods in early childhood mathematical teaching. PREREQ: MAT 101.

350 Foundations of Mathematics Education (3) Historical overview of mathematics education with emphasis upon influential curricular programs; implications of learning theory; significance of research; identification of current issues; organizational alternatives for the classroom; evaluation resources. PREREQ: MAT 261. Offered in fall.

351 Teaching Mathematics in Elementary Schools I (3) Concepts, learning aids, syllabi, texts, and methods in elementary school mathematics. MAT 101-102.

352 Teaching Mathematics in Elementary Schools II (3) Techniques for teaching children concepts such as geometry in two and three dimensions, number sentences, graphing, ratios and percent, quantifiers, etc.; use of laboratory materials will be emphasized. PREREQ: MAT 351. Offered in spring.

354 Techniques of Teaching Secondary School Mathematics (3) Techniques used in the presentation of specific mathematical concepts, associated materials, levels of questioning, motivational devices. Scope and sequence of secondary mathematics topics. Criteria for text evaluation. Preview of student teaching. PREREQ: MAT 350. Usually offered in spring.

357 Teaching Mathematics to the Handicapped (3) Methods and materials associated with the presentation of mathematics to the handicapped. Emphasis on individualization involving thinking skills at the concrete level. Evaluative and interpretive techniques are included. PREREQ: MAT 101-102.

390 Seminar in Mathematics Education (3) Typical topics are: remedial programs, low achiever programs, materials for mathematics education, methodology in mathematics education, mathematics and the computer, theories of mathematics education, and analysis of research in mathematics education. PREREQ: MAT 351.

400 History of Mathematics for Elementary Teachers (3) History and development of elementary mathematics from primitive times to the discovery of the calculus. Problems of the period are considered. PREREQ: MAT 212, 233.

401 History of Mathematics (3) Development of mathematics from the Babylonian era to the 18th century. Some modern topics included. PREREQ: MAT 261.

405 Special Topics in Mathematics (3) Topics announced at the time of offering.

411-412 Algebra I-II (3) (3) Abstract algebra. Algebraic systems; groups; rings, integral domains, and fields. PREREQ: MAT 261. 411 must precede 412.

414 Theory of Numbers (3) Properties of the integers; primes, factorization, congruences, and quadratic reciprocity. PREREQ: MAT 262.

421-422 Mathematical Statistics I-II (3) (3) Probability theory, discrete and continuous random variables, distributions, moment generating functions. Statistical sampling theory, joint and interval estimation, test of hypothesis, regression, and correlation. PREREQ: MAT 262. 421 must precede 422.

425 Numerical Analysis (3) Numerical methods for the approximate solution of applied problems. Interpolation theory, curve fitting, approximate integration and numerical solution of differential equations. PREREQ: CSC 101 or CSC 141 and MAT 262.

427 Introduction to Optimization Techniques (3) Nature of optimization problems: deterministic and stochastic, discrete and continuous. Computer methods of solution; systematic and random search; linear quadratic, dynamic programming, and others. PREREQ: CSC 101 (or CSC 141) and MAT 262.

432 Topology (3) Elements of point set topology. Separation axioms. Connectedness, compactness, and metrizability. PREREQ: MAT 262.

441-442 Advanced Calculus I-II (3) (3) A rigorous treatment of the calculus of a single real variable. Topics in several real variables and an introduction to Lebesque integration. PREREQ: MAT 262. 441 must precede 442.

443-444 Applied Analysis I-II (3) (3) The techniques of analysis applied to problems in the physical sciences. Topics include: partial differential equations, orthogonal functions, complex integration, and conformal mapping. PREREQ: MAT 262. 443 must precede 444

445 Complex Variables (3) Introduction to functions of a complex variable. Analytic functions, mappings, differentiation and integration, power series, and conformal mappings. PREREQ: MAT 262.

490 Seminar in Mathematics (3) Topics in mathematics selected for their significance and student-instructor interest. Independent study and student reports, oral and written. PREREQ: senior standing and consent of department chairperson.

493 Mathematical Modeling (3) The idea of a mathematical model of a real situation. Techniques and rationales of model building. Examples from the life, physical, and social sciences. PREREQ: MAT 262, 343.

COMPUTER SCIENCE

Symbol: CSC

***101 Introduction to Computers (non-majors) (3)** A course for non-majors dealing with what computers are, what they can do, a brief history of computers, societal implications of computer usage, and how they are used. A brief introduction to a programming language is provided along with hands-on experience using word-processing, database, and spreadsheet programs.

***115 Introduction to Computer Programming (non-majors) (3)** The art and science of computing is introduced with an emphasis on structured programming. Topics include looping, branching, arrays and program development.

***141 Introduction to Computer Science (3)** Introduction to the art and science of computing and its applications. Topics include structured programming, algorithmic development, decisions, loops, procedures, functions, parameter passing, arrays and files. Several programs are written by each student. At present Pascal is the language used. PREREQ Two years of high school algebra.

142 Applied Software (3) Techniques of program design, documentation and implementation are studied using of the structured language in CSC 141. Topics include number system, internal data storage, recursion, sets, strings, pointers, and different types of files. PREREQ. CSC 141.

202 Programming Language Lab — BASIC (1) Introduction to BASIC with an emphasis on programming. PREREQ. CSC 141 and MAT 161. Offered in fall of even years.

203 Programming Language Lab — APL (1) Introduction to APL with an emphasis on programming. PREREQ: CSC 141 and MAT 161. Offered in spring of even years.

204 Programming Language Lab — FORTRAN (1) Introduction to FORTRAN with an emphasis on programming. PREREQ: CSC 141. Offered in fall of odd years.

206 Programming Language Lab — MODULA-2 (1) Introduction to the MODULA-2 programming language. PREREQ: CSC 141 and CSC 142. Offered as needed.

207 Programming Language Lab — C (1) Introduction to the C programming language. PREREQ: CSC 141, CSC 142 and CSC 242, (CSC 242 recommended). Offered in fall.

208 Programming Language Lab-Forth (1) Introduction to Forth programming language. PREREQ: CSC 141. Offered as needed.

209 Programming Language Lab — List processing (1) Programming skills are developed in a list processing language such as LOGO and/or LISP. PREREQ: CSC 141, 142. Offered in spring of odd years.

210 Programming Language Lab — Software Packages (1) Skills are developed in the use of various software packages, e.g. spreadsheet, database, graphing. PREREQ: CSC 141. Offered in spring.

211 Programming Language Lab — COBOL (1) Programming skills are developed in the COBOL language. PREREQ: CSC 141 or CSC 115. Offered as needed.

212 Programming Language Lab — Advanced COBOL (1) Continuation of CSC 211. PREREQ: CSC 211. Offered as needed.

215 Programming Language Lab—PROLOG (1) Introduction to logic programming using PROLOG. PREREQ: CSC 141 and CSC 142. Offered as needed.

216 Programming Language Lab—MODEL 204 (1) Introduction to programming in a data base environment using Model 204 DBMS. PREREQ: CSC 241 and CSC 321. Offered as needed.

241 Data Structures (3) A study of data structures and algorithms for their manipulation using Pascal. Topics include stacks, queues, linked lists, trees, graphs, multiway search trees, B-trees, sorting and searching. PREREQ: CSC 141, CSC 142, MAT 161 (MAT 281 is recommended).

242 Computer Organization (3) Study of the architecture of a computer system and its native language. Use of assembler language and interfacing with higher level languages is included. PREREQ: CSC 141, 142, MAT 161 (CSC 241 recommended) or permission of instructor.

300 Cooperative Programming (4) The student works in the application programming section of an information systems group as a junior programmer to gain experience in programming and implementing small projects of use to the com-

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* Approved Distributive Requirement Course

pany. PREREQ: Written approval of the computer science internship supervisor; CSC 141, 142, 241, 242; MAT 161, 162; at least two programming language labs; 2.5 in CSC; 2.0 in MAT (WCU classroom courses). Offered summer presession only.

321 Data-Base Management Systems (3) Characteristics of generalized data management systems; survey of widely used systems; techniques for improving the interface between a manager and information needed to make decisions through easy-to-use generalized reporting systems. PREREQ: CSC 142, 241. Offered in fall and spring.

331 Operating Systems I (3) Operating systems and their user characteristics. Maintenance of a complex operating system with emphasis on important trade-offs made in tuning the system. Core and file management, systems accounting, and security, and other user related services. PREREQ: MAT 221, MAT 281, CSC 241, CSC 242, CSC 361.

332 Operating Systems II (3) A modularly constructed UNIX operating system which uses the object-oriented programming techniques of message passing is studied. Topics covered are process control and management, memory management, file management, systems accounting and systems security. PREREQ: CSC 331.

335 On-Line Computing (3) Characteristics of data communication equipment. Design implementation, modification of information systems in an on-line environment. File management systems and data structures appropriate to real-time computing with emphasis on back-up and recovering techniques. PREREQ: CSC 241, 242, MAT 281. Offered in spring.

341 Compiler I (3) Translation, loading, execution of a higher level language. Syntax analysis of simple expressions and statements. Organization of a compiler, design and implementation of a simple compiler. PREREQ: CSC 241, 242, MAT 281.

342 Compiler II (3) An indepth study of syntax directed analysis, error recovery and code optimization. Compiler language features. PREREQ: CSC 341.

343 Formal Languages (3) A study of the various types of automata and their associated languages. This course is designed to give a student an understanding and appreciation of the production system for languages and their relationship to automata. PREREQ: CSC 241, 242, MAT 221, 281. Offered fall in even years.

350 Computers in Education (3) (non-majors) Technical knowledge and skills for successful use of the computer as a supportive tool of education in elementary and secondary school classes. Includes hands-on experience using word processing, data base, spreadsheet, and elementary desk-top publishing. Software evaluation techniques are learned using both utility and subject matter software. Usually offered summers.

361 Simulation (3) Computer simulation using logical and numerical modeling to represent systems. Use of special languages to simulate actual systems. PREREQ: CSC 241, MAT 281 (or MAT 262), MAT 221 (or equivalent).

371 Computer Graphics (3) Construction and manipulation of prototypes for graphical display purposes. PREREQ: CSC 241, MAT 281 (or MAT 262), MAT 211 (or permission of instructor). Offered in spring.

381 Artificial Intelligence (3) Thorough study and analysis of the LISP language in its application to non-numeric problems and symbol manipulations. Application to gaming, scene analysis and pattern recognition, linguistic analysis and semantic representation, image analysis and solution spaces, problem solving and attention control. Each student required to take one substantial problem and solve it using the LISP language and the techniques of artificial intelligence. PREREQ: CSC 241, 242, MAT 162 and MAT 281. Offered fall of odd years.

385 Expert Systems (3) Using the techniques of artificial intelligence and formal logic, methods are developed to establish knowledge bases and to extract inferences which can be deduced therefrom. Topics covered are: backward and forward chaining, search methods, frames and slots. PREREQ: CSC core and MAT 281.

400 Cooperative Specialty (9) Working for an organization in his or her concentration area, the student applies his or her background to real problems. PREREQ: Written approval of computer science internship supervisor, 2.5 in CSC, 2.0 in MAT (in WCU classroom courses), five programming languages labs, completion of degree requirements during semester of registration.

402 Software Engineering (3) The purpose of this course is to introduce students to problems associated with programming large projects. Emphasis is on project planning, requirement analysis, software quality assurance, testing and maintenance. Students work in groups on a large project. PREREQ: CSC core and CSC 300.

490 Independent Project in Computer Science (1-5) The student designs and implements a software system. Project problems are drawn from local industry and university departments. A computer science faculty member supervises each project. PREREQ: Consent of instructor.

495 Topics in Computer Science (3) Announced at time of offering. PREREQ: Consent of instructor. Offered as needed.

499 Independent Study in Computer Science (1-4) In conjunction with the instructor, the student selects study topics via literature search. PREREQ: Consent of instructor.

Department of Philosophy

George S. Claghorn, *Chairperson*

PROFESSORS: Claghorn, Croddy, Hipple, Platt, Riukas, Streveler, Struckmeyer

ASSOCIATE PROFESSORS: Banyacski, Williams

The Department of Philosophy offers two programs leading to the Bachelor of Arts degree and, in cooperation with the faculty of teacher education, a program leading to the Bachelor of Science in Education.

1. The B.A. in PHILOSOPHY surveys the history of philosophy, explores its major disciplines, and focuses on selected topics of perennial interest. The purpose of the program is to develop the organizational, analytic, and expressive skills required for law school, seminary, graduate work in philosophy, and the wide range of careers in government, business, and industry.
2. The B.A. in PHILOSOPHY—RELIGIOUS STUDIES is designed for students planning on religious vocations, or as a foundation for graduate work in religion or cross-cultural studies. The emphasis is on individual and social expression of religion, Western and non-Western, philosophic implications, and fine arts applications.
3. The B.S. in EDUCATION in SOCIAL STUDIES is for students interested in pursuing a concentration in philosophy while earning state certification to teach secondary school social studies.

Majors in the two B.A. programs should consult the department handbook and their advisor for current requirements.

Students planning to pursue the B.S. in Education in social studies should consult during the freshman year with both their advisor in this department and their professional studies advisor in secondary education.

REQUIREMENTS COMMON TO THE B.A. PROGRAMS

1. General Requirements, see pages 31-33	44-51 s.h.
2. Foreign Language/Culture Requirement	0-15 s.h.
3. Major Requirements	24 s.h.
4. Free Electives	38-60 s.h.

BACHELOR OF ARTS—PHILOSOPHY

1. Required Core Courses (PHI 180, 190, 270, 272, 499)	15 s.h.
2. Philosophy Electives	9 s.h.

BACHELOR OF ARTS—PHILOSOPHY—RELIGIOUS STUDIES

1. Required Courses (PHI 102, 202, 203, 204, 271, 349, and SOC 344)	21 s.h.
2. Elective in Religious Studies as advised	3 s.h.

BACHELOR OF SCIENCE IN EDUCATION—SOCIAL STUDIES: CONCENTRATION IN PHILOSOPHY

Students interested in teaching secondary school may pursue a concentration in philosophy while earning state certification and the

Bachelor of Science in Education. See description under SOCIAL STUDIES: B.S. IN EDUCATION, pages 101-102.

MINOR PROGRAMS

Students may minor in either of the two following programs. A minimum of 18 semester hours is required. Elective courses are selected in consultation with the student's minor advisor. Either of these minors may be taken as a concentration by students in the Associate of Arts in liberal studies program or as one of the minors in the Bachelor of Arts or Bachelor or Science in liberal studies general degree program.

Philosophy Minor

1. Required Courses 12 s.h.
   (PHI 101, 150 or 190, 174 or 180, and 270, 271, or 272)
2. Philosophy Electives, under advisement 6 s.h.

Religious Studies Minor

1. Required Courses 12 s.h.
   (PHI 102, 202 or 203, 204 or 205, 349)
2. Religious Studies Electives, under advisement 6 s.h.

COURSE DESCRIPTIONS

PHILOSOPHY

Symbol: PHI

Note: Only PHI 412, 436, and 499 have prerequisites. All other philosophy courses are non-sequential and open to all students. Not all courses will be offered every year.

INTRODUCTORY COURSES IN PHILOSOPHY AND RELIGION

⋆ **101 Introduction to Philosophy (3)** The chief problems and methods of philosophic thought, with a survey of some typical solutions. The place and influence of philosophy in the life of man today. Offered every semester.

#102 Introduction to Religious Studies (3) The role of religion in human life. Illustrations drawn from various traditions, rituals, and belief patterns, both ancient and modern.

150 Critical Thinking and Problem Solving (3) Introduction to the principles of valid inference and effective thinking. Problem solving; puzzles; games; decision-making; the syllogism; probability; logical fallacies; creative thinking.

#174 Principles of the Arts (3) Contrasting systems for the analysis and evaluation for works of art—literature, the visual arts, and music.

⋆ **180 Introduction to Ethics (3)** Great ethical systems of history and their application to personal and social life. The right and the good; the nature of values; and critical ethical dilemmas.

COURSES IN THE HISTORY OF PHILOSOPHY

270 History of Ancient Philosophy (3) A survey of the major figures of ancient philosophy, from the pre-Socratics through Plato, Aristotle, the Epicureans, and Stoics, to the Skeptics and Neo-Platonists. Offered in fall.

271 History of Medieval Philosophy (3) The history of philosophy from the early Church fathers to the late Middle Ages. St. Augustine, St. Thomas, mysticism, Jewish and Mohammedan influences, humanism, and the rise of science.

272 History of Modern Philosophy (3) From Descartes to Hegel. The social, political, and scientific impact of the philosophers. Offered in spring.

273 19th Century Philosophy (3) Hegel and German Idealism, decisive influences on European and American literature and thought. Survey of the chief themes of Schopenhauer, Comte, Mill, Spencer, Marx, Kierkegaard, Darwin, and Nietzsche.

274 Contemporary Analytic Philosophy (3) Philosophic trends since 1850, including the process philosophy, Pragmatism, Positivism, Existentialism, and the Analytic School.

284 American Philosophy (3) Leaders in science, literature, religion, and government who have shaped American thought. Philosophers of Puritanism, the Revolution, Transcendentalism, and native schools of Realism, Idealism, and Pragmatism.

415 Existentialism (3) The rise and development of Existentialism. Chief exponents; views of man; influence on ethics, literature, and social action.

COURSES ON OTHER PHILOSOPHICAL TOPICS

190 Logic (3) Introduction to symbolic logic. The nature of logical arguments, truth-functional propositions; validity; natural deduction; simple quantification. Offered every semester.

◆ **201 Contemporary Issues (3)** Discussion and analysis of contemporary philosophical issues of particular concern to students, such as death, personal identity, environmental ethics, and human labor. The topic varies from semester to semester.

#330 (also LIN 330) Introduction to Meaning (3) Relationship between linguistics and philosophy, with emphasis on meaning in language. Some issues in the theory of meaning from both linguistics and philosophy; materials from each field to help solve these issues.

360 (also LIN 360) Philosophy of Language (3) Questions of meaning in communication. Emphasis on contemporary discussions of theories of natural language.

370 Biomedical Ethics (3) A survey of basic ethical theories with application to contemporary ethical issues. Rights and responsibilities; the definition of life; and biomedical research.

382 Social Philosophy (3) The relation between man and the state, especially as seen by recent thinkers. Justice, natural rights, political obligation, freedom, and equality.

412 Ethical Theories (3) Advanced course in ethical theory, stressing applications. PREREQ: PHI 180 or permission of the instructor.

413 Aesthetic Theories (3) Interpretation of beauty and art. Effects of motivation, problems in media and in goals. A background of meaning for the evaluation of specific works of painting, sculpture, music and architecture.

414 Philosophy of Religion (3) Religion and the religious experience as viewed by major Western thinkers. The existence of God, immortality, religious knowledge, evil, miracles, and science and religion.

422 Philosophy of Science (3) The nature of scientific method and scientific theory, with reference to presuppositions, inference, explanation, prediction, applications, and verification.

436 Symbolic Logic (3) Principles and methods of symbolic logic. Practice in determining validity of sentential and quantificational arguments. The algebra of classes. PREREQ: PHI 190 or permission of the instructor.

483 Philosophy of History (3) Classic philosophies of history, including those of Augustine, Vico, Hegel, Marx, Spengler, Toynbee and Collingwood. Definitions of civilization, norms of progress and decadence, determinism and indeterminism, causality, and pattern.

COURSES IN RELIGION

202 Religions of the West I (3) A survey of the thought of Christianity and Judaism to the year 500.

203 Religions of the West II (3) A survey of the thought of Christianity, Islam, and Judaism, from the year 500 to the present. Emphasis on theological development, with attention to social, economic, and historical factors.

204 Philosophies and Religions of India (3) The religious and philosophical heritage of India, from Vedic times to the present. Examination of major classics, such as Rig Veda, Upanishads, Bhagavad-Gita, and Yoga-sutras, with some attention also to recent writers such as Tagore, Gandhi, and Radhakrishnan.

205 Philosophies and Religions of the Far East (3) A survey of Far Eastern philosophy, religion and scientific thought. Confucianism, Taoism, and the various schools of Mahayana Buddhism, including Zen, are given primary emphasis.

349 Ideas of the Bible (3) An introduction to Biblical concepts of revelation, God, man, nature, and redemption, in the light of Hebrew and Greek thought.

414 Philosophy of Religion (3) See "Courses in Philosophical Topics," above.

INDEPENDENT STUDIES AND SEMINARS

◆ **410 Independent Studies (1-3)**

◆ **499 Philosophic Concepts and Systems (3)** An intensive study of the major works of one philosopher, stressing themes and comparison with other views. Required of all philosophy majors; PREREQ: Six hours of philosophy and senior standing or permission of instructor.

⋆ Approved Distributive Requirement Course
\# Approved Interdisciplinary Course
◆ This course may be taken again for credit.

Department of Physics and Pre-Engineering Program

Harold L. Skelton, *Chairperson*

PROFESSORS: Rickert, Smith

ASSOCIATE PROFESSORS: Hawkes, Kaplan, Martens, Skelton

INSTRUCTOR: Holder

The Department of Physics at West Chester University offers three undergraduate degree programs leading to the Bachelor of Science in physics, the Bachelor of Science in Education, and a cooperative five-year program with Pennsylvania State University leading to a B.S. in physics from West Chester University and a B.S. in engineering from Pennsylvania State University.

For freshman admission into the physics program, a student should have completed, in addition to the general University requirements, one year each of chemistry and physics, a minimum of three years of mathematics including advanced algebra and trigonometry, and SAT score of 1000 (465 Verbal, 535 Math). Any student with a deficiency must complete ENG 120 and MAT 161 with grades of C or better to be admitted into the program.

West Chester has a chapter of the National Physics Honor Society, Sigma Pi Sigma.

A minor program in physics is also available.

BACHELOR OF SCIENCE—PHYSICS

The physics program at West Chester is designed as preparation for graduate school or careers in government or industry. The curriculum includes a strong foundation in mathematics and the humanities. It is structured on an experimental as well as theoretical basis. A wide choice of electives in the B.S. program provides the flexibility to develop a concentration in some specific area of interest. Two such concentrations have been developed by this department with the aid of faculty from the Departments of Mathematics and Computer Science and Geology and Astronomy.

1. Physics Concentration Requirements
   A. PHYSICS: PHY 170, 180, 240, 300, 310, 320, 330, 350, 420, 430; an additional six s.h. in physics must be chosen from available electives at or above the 300 level.
   B. MATHEMATICS: MAT 161, 162, 241, 242, 343, CSC 141
   C. CHEMISTRY: CHE 103, 104, CRL 103, 104
2. Concentrations. Choose between:
   A. Computer Science Option—Students use electives from their program to complete the following sequences of courses: CSC 241, 361, 371, MAT 211, 425.
   B. Geology-Geophysics Option—Students use electives to complete the sequence of courses: ESS 201, 211, 302, 305.

Candidates for the B.S. in physics must satisfy a foreign language requirement at the 102 level. In physics the recommended languages are French, German, or Russian.

Students must complete the physics sequence with a G.P.A. of 2.0 or greater. Majors shall not have more than one repeat of a physics course. Transfer students must take a minimum of 15 or more physics credits at West Chester at the 300 level and above for graduation.

BACHELOR OF SCIENCE IN EDUCATION—PHYSICS

The B.S. program in physics education provides a solid background in physics, mathematics, and related science for a teaching career at the secondary level and leads to certification to teach physics in the public schools of Pennsylvania.

1. Physics Concentration Requirements
   A. PHYSICS: PHY 170, 180, 240, 300, 310, 320, 330, and 410 or 430.
   B. MATHEMATICS: MAT 161, 162, 241; MAT 343 or PHY 370
   C. SCIENCES: CHE 103, 104; CRL 103, 104; astronomy elective; biology elective; computer science elective
2. Professional Education Requirements
   See page 98.

BACHELOR OF SCIENCE—PHYSICS/BACHELOR OF SCIENCE—ENGINEERING

The Department of Physics offers a cooperative engineering program with Pennsylvania State University requiring three years in residence at West Chester University plus two years in residence at Pennsylvania State University for study in engineering. At the end of this period the student receives two baccalaureate degrees: a B.S. in physics from West Chester and a B.S. in engineering from Penn State.

Admission to Pennsylvania State University is contingent upon a recommendation from West Chester University and the student having maintained the overall average for the specific engineering major.

Students who have completed a bachelor's degree are not eligible for transfer to Penn State in this program.

Areas of study in engineering are:

Aerospace Engineering
Agricultural Engineering
Ceramic Science
Chemical Engineering
Civil Engineering
Electrical Engineering
Engineering Science
Environmental Engineering
Industrial Engineering
Mechanical Engineering
Metallurgy
Mining Engineering
Nuclear Engineering
Petroleum and Natural Gas Engineering

Physics Concentration Requirements

A. PHYSICS: PHY 170, 180, 115, 116, 240, 260, 300, 310, 320; an additional six s.h. in physics at or above the 300 level must be chosen depending on the engineering area selected.
B. MATHEMATICS: MAT 161, 162, 241, 242, 343, CSC 141
C. CHEMISTRY: CHE 103, 104, CRL 103, 104

In addition, students intending to enroll in chemical engineering must have CHE 231 and 232; in mining engineering, ESS 201, 302, ESL 201; and petroleum and natural gas engineering, ESS 201, 211, ESL 201. Students intending to enroll in aerospace, electrical, or nuclear engineering must take PHY 370 and PHY 420.

MINOR IN PHYSICS

The program offers a scientific background as a preparation for a variety of career choices, e.g., business majors interested in careers in technologically-oriented industries; majors interested in technical scientific sales; English majors interested in technical writing; social science majors interested in the area of energy and the environment.

Required: PHY 130, 140, or PHY 170, 180; also PHY 240. In addition students must select eight semester hours of physics courses at the 300 level or above, chosen under advisement of the Physics Department. Transfer students must take a minimum of six credits at West Chester at the 300 level or above.

COURSE DESCRIPTIONS
PHYSICS
Symbol: PHY
(3-2) represents three hours lecture and two hours lab.

★ 100 Elements of Physical Science (3) A study of motion, energy, light and some aspects of modern physics stressing a conceptual and historical understanding.

110 Acoustics for Speech and Hearing (3) Non-technical introduction to acoustics. Waves and acoustical wave propagation, wave superposition, the acoustical spectrum, human voice tract as a sound source, and the human ear as a receptor.

115 Engineering Graphics I (1) Use and preparation of engineering drawings. Topics include use of instruments, linework, geometric construction, lettering, the four types of projections, dimensioning and sections.

116 Engineering Graphics II (1) A continuation of PHY 115, to include the following topics: Layout, detail and assembly drawings, developments, auxiliary drawings, various types of drafting, machine tool processes and computer drafting. PREREQ: PHY 115.

†130 General Physics I (4) An introductory non-calculus physics course. Mechanics of solids and fluids, wave motion, heat and temperature, thermodynamics, and kinetic theory. (3-2) PREREQ: Algebra and trigonometry.

†140 General Physics II (4) An extension of PHY 130. Electricity and magnetism, geometrical and physical optics, and modern physics. (3-2) PREREQ: PHY 130.

†170 Physics I (4) An introductory course. Mechanics of solids and fluids, heat, temperature, thermodynamics, the kinetic theory, and wave motion. (3-2, one-hour recitation) PREREQ: MAT 161.

†180 Physics II (4) An extension of PHY 170. Electricity and magnetism, geometrical and physical optics, and modern physics. (3-2, one-hour recitation) PREREQ: PHY 170, CONCURRENT: MAT 162.

240 Introduction to Modern Physics (3) An atomic view of electricity and radiation, atomic theory, special relativity theory, X-rays, radioactivity, nuclear fission, and introductory quantum mechanics. PREREQ: PHY 180 or 140, MAT 162.

260 Engineering Statics (3) Composition and resolution of forces, equivalent force systems, equilibrium of particles and rigid bodies, centroids and center of gravity, analysis of simple structures, internal forces in beams, friction, moments and products in inertia, methods of virtual work. PREREQ: PHY 170 or PHY 130, MAT 162.

300 Mechanics (3) Particle kinematics, dynamics, energy and momentum considerations; oscillations; central force motion; accelerated reference frames; rigid body mechanics, Lagrangian mechanics. PREREQ: PHY 180 or PHY 140, MAT 162.

310 Intermediate Physics Laboratory I (2) A course to familiarize students with laboratory equipment and methods. PREREQ: PHY 240.

320 Intermediate Physics Laboratory II (2) A continuation of PHY 310. PREREQ: PHY 310.

330 Electronics I (3) Laboratory study of standard electronic circuits—amplifiers, oscillators, power supplies, test circuits. Some theory of solid state. (2-2) PREREQ: PHY 180 or 140.

340 Fundamentals of Radioisotope Techniques (3) Biological, chemical, environmental, and physical effects of nuclear radiation. Radiation detection instrumentation and radio tracer methodology. (2-2) PREREQ: CHE 104 and PHY 180 or PHY 140.

350 Heat and Thermodynamics (3) Equations of state, first and second laws of thermodynamics, ideal and real gases, entropy, and statistical mechanics. PREREQ OR CONCURRENT: PHY 240, MAT 242.

370 Mathematical Physics (3) Selected topics in mathematics applied to problems in physics, ordinary differential equations, vector calculus, Fourier analysis, matrix algebra and eigenvalue problems. PREREQ: MAT 241 and PHY 180 or 140.

400 Analytical Dynamics (3) Wave propagation, Lagrange's equations and Hamilton's principle, rigid body motion, and special relativity. PREREQ: PHY 300, MAT 343.

410 Optics (3) Geometrical and physical optics. Reflection and refraction at surfaces, lenses, interference and diffraction, polarization. PREREQ: PHY 180 or 140, PREREQ OR CONCURRENT: MAT 242.

420 Atomic Physics and Quantum Mechanics (3) Fundamental concepts of quantum mechanics with application to atomic physics. Topics covered are Bohr model, Schrodinger equation with applications, perturbation theory, helium atom, and scattering theory. PREREQ: PHY 240, PHY 300, and MAT 343 or PHY 370.

430 Electricity and Magnetism (3) Electrostatics of point charges and extended charge distributions, fields in dielectrics, magnetic fields due to steady currents. Ampere's Law, and induced emfs, topics in electromagnetic waves as time permits. PREREQ: PHY 300, MAT 343 or PHY 370.

440 Microcomputer Electronics (3) Laboratory study of special circuits, integrated circuits, microcomputers, and microcomputer interface applications. PREREQ: PHY 330.

450 Advanced Physics Laboratory I (1) A course to familiarize students with contemporary laboratory equipment and methods.

460 Advanced Physics Laboratory II (1) A continuation of PHY 450.

470 Seminar in Physics (1) Oral and written reports on approved topics. Variation in topics from year to year depending on the interest and needs of students.

♦480 Special Topics (1-3) Topics of special interest to be presented once or twice. PREREQ: To be specified by the instructor. Course may be repeated by student for credit any number of times when different topics are presented.

490 Introduction to Research (1-9) Specific problems in consultation with the faculty advisor. PREREQ: Consent of instructor.

★ Approved Distributive Requirement Course
†PHY 170-180 and PHY 130-140: Approved two-semester requirement substitutes

♦ This course may be taken again for credit.

Pre-Medical Program

Philip Rudnick, *Director*
Elise Triano, *Assistant Director*

COMMITTEE MEMBERS

Melissa Cichowicz, *Chemistry*
Carmela Cinquina, *Biology*
Marianne Eleuterio, *Biology*
Michael Moran, *Chemistry*
Philip Rudnick, *Chemistry*
Paul Streveler, *Philosophy*
Elsie Triano, Biology
Ralph Verno, *Mathematics*

The Pre-Medical Program prepares students for application to the health professional schools of medicine, dentistry and veterinary medicine, and for careers in biomedical research. Supervised by a pre-medical committee, the program consists of an individualized selection of course work, personal counseling beginning in the freshman year, and junior-year biomedical research at an outside research institute. Students with majors other than chemistry-biology* (Pre-Medical) are required to have two advisors—one from their major field and one from the Pre-Medical Committee.

Because of the intense competition for health professional school admission, only academically talented and highly motivated students should apply to the Pre-Medical Program. Applicants are selected on the basis of their potential for achievement in the program. Students in the program must maintain a minimum 3.0 grade point average and the high standards of performance necessary for health professional school admission.

It is essential for incoming students contemplating a medical career to register with the Pre-Medical Office immediately upon matriculation at the University. Similarly, it is essential for students who at some later time develop an interest in a medical career to register with the Pre-Medical Office. Students who fail to consult with the Pre-Medical Office prior to taking the Medical College Admissions Test (MCAT) or who fail to report the results of any MCAT exam to the Pre-

Medical Office forfeit the privilege of receiving a Pre-Medical Committee letter of evaluation when they apply to medical school.

All West Chester students who wish to apply to a health professional school should ask their professors to forward letters of evaluation to the Pre-Medical Committee and *should process their applications through the committee.* The committee will send a composite letter of evaluation to the professional school. *Except for special circumstances, no letters of recommendation should be sent directly to professional schools.*

Further information is available in the Pre-Medical Office, Room 161 Schmucker Science Center.

CONCENTRATION AND CORE REQUIREMENTS FOR CHEMISTRY-BIOLOGY* (PRE-MEDICAL) CURRICULUM

BACHELOR OF SCIENCE—CHEMISTRY-BIOLOGY* (PRE-MEDICAL)

1. General Requirements 29 s.h.
   Includes six semester hours of English Composition
2. Biology 24 s.h.
   BIO 110, 117, 220, 230, 357, 448, 468
3. Chemistry 30 s.h.
   CHE 103, 104, 231, 232, 321, 345, 471;
   CRL 103, 104, 232; 321 or 471
4. Concentration Elective, Biology or Chemistry 3 s.h.
5. Mathematics 14 s.h.
   MAT 121, 161, 162
   (Students who start with MAT 105 and participate in a full-time, one-semester research internship may substitute MAT 105, 161 for MAT 161, 162)
   CSC 115, 141 or equivalent.
6. Physics 8 s.h.
   PHY 170 or 130
   PHY 180 or 140
7. Free Electives 20 s.h.

See also Chemistry.

Department of Psychology

Edward Pollak, *Chairperson*
Philip Duncan, *Assistant Chairperson*

PROFESSORS: Clark, Cohen, Crawford, Duncan, Kumar, Means, Moore, Morse, Pollak, J. Porter, L. Porter, Sands, Smith

ASSOCIATE PROFESSORS: Shinehouse, Treadwell

ASSISTANT PROFESSORS: Bloom, DeSantis, Mahlstedt

ADJUNCT PROFESSOR: Pekala

The Department of Psychology offers bachelor's degrees in three areas of concentration.

1. The B.A. in PSYCHOLOGY prepares the student to understand those variables, such as heredity, learning, and the environment, which shape and change behavior. Careers are possible in clinics, guidance centers, industry, hospitals, schools, and government. Students should consult their advisors concerning recommended preparations for specific career goals. This program will also prepare the student for postgraduate study.

2. The B.A. in PSYCHOLOGY, COGNITIVE REHABILITATION CONCENTRATION, also provides training for cognitive rehabilitation therapists. Such therapists work with patients who have suffered brain trauma following an accident or stroke. The therapist will carry out a treatment program designed to facilitate the recovery of cognitive functions such as memory, reasoning, judgment, etc. The cognitive rehabilitation therapist typically works under the supervision of a doctoral level clinical neuropsychologist. This program will also prepare the student for postgraduate study.

3. The B.S. in EDUCATION program prepares students to teach the social sciences in the secondary schools.

BACHELOR OF ARTS—PSYCHOLOGY

1. General Education Requirements, see pages 31-33. 47-51 s.h.
   Includes PSY 100; MAT 103 is required; BIO 100 and CSC 101 are strongly recommended for partial completion of the science requirement.
2. Foreign Language/Culture Requirement, see pages 32-33. 0-15 s.h.
3. Department Requirements 36 s.h.
   A. Required Psychology Courses (21 s.h.)
      PSY 245, 246, 400. Students must choose two courses from Group I and two courses from Group II.
      Group I
      PSY 254, 257, 375
      Group II
      PSY 363, 464, 470
   B. Psychology Electives (15 s.h.)
      These may be selected from among any of the departmental offerings.
4. Department Free Electives 29-48 s.h.
   These electives are in addition to the nine s.h. of electives listed under the General Education Requirements and may be selected from among any of the University course offerings.

BACHELOR OF ARTS—PSYCHOLOGY: COGNITIVE REHABILITATION CONCENTRATION

1. General Education Requirements 47-51 s.h.
   Includes PSY 100; MAT 103 is required; BIO 100 and CSC 101 are strongly recommended for partial completion of the science requirement.
2. Foreign Language/Culture Requirement. 0-15 s.h.
3. Departmental Requirements 39 s.h.
   PSY 245, 246, 254, 257, 363, 375, 400, 441, 442, 464, 470, 475, 480
4. Department of Special Education Requirements 6 s.h.
   EDA 101 Psychology of the Mentally Handicapped
   EDA 102 Psychology of the Physically Handicapped
5. The following special education courses are not required; however, it is strongly recommended that the student consider them when selecting free electives:
   EDA 220 Behavior Management
   SPP 340 Language Development
   EDA 350 Life Curriculum and Methods
   EDA 360 Diagnostic and Prescriptive Teaching
6. Free Electives 17-36 s.h.
   These electives are in addition to the nine s.h. of electives listed under the General Education Requirements (see pages 31-33 in catalog) and may be selected from among any of the University course offerings.

BACHELOR OF SCIENCE IN EDUCATION—SOCIAL STUDIES: PSYCHOLOGY (concentration)

See description under Social Studies: B.S. in Education, pages 101-102.
Psychology requirements (18 s.h.) PSY 245, 254, 257, 375, 400, 464

MINOR IN PSYCHOLOGY

A total of 18 semester hours is required. After taking PSY 100, the student will choose 15 additional hours in consultation with the Psychology Department's minor advisor.

ASSOCIATE OF ARTS IN LIBERAL STUDIES—PSYCHOLOGICAL SERVICES CONCENTRATION

1. General Educational Requirements, see pages 31-33. 38 s.h.
2. Departmental Requirements
   A. Required Courses 18 s.h.
      PSY 100, 210, 291, 327, 375, and 441
   B. Free Electives 8 s.h.
      These may be selected from among any courses offered by the University.

ASSOCIATE OF ARTS IN LIBERAL STUDIES—PSYCHOLOGY CONCENTRATION

1. General Education Requirements, see pages 31-33. 38 s.h.
2. Departmental Requirements
   A. Required Courses 18 s.h.
      Any six psychology courses which are appropriate to the student's interests and vocational plans may be taken under advisement.
   B. Free Electives 8 s.h.
      These may be selected from among any courses offered by the University.

COURSE DESCRIPTIONS
PSYCHOLOGY
Symbol: PSY

★ 100 **Introduction to Psychology (3)** Introduction to the scientific study of behavior. The multiple bases of human behavior with emphasis on the learning process. Basic concepts, principles, and methodology. Students may be required to become familiar with an ongoing research study in psychology as an out-of-class assignment Offered fall, spring and summer.

210 **Developmental Psychology: Lifespan (3)** A survey of research findings and theoretical issues related to developmental processes from the prenatal phase to senescence. PREREQ. PSY 100. Majors are advised to take PSY 382 and/or PSY 384 rather than PSY 210.

245 **Research Methods and Statistics I (3)** Experiments on selected problems, with emphasis on techniques in the design and execution of experiments and on the application of elementary techniques to the collection, analysis, and interpretation of data. PREREQ: PSY 100. Offered fall and spring.

246 **Research Methods and Statistics II (3)** Continuation of PSY 245 with emphasis on more advanced experimental designs and statistical techniques. RECOMMENDED PREREQ: PSY 245. Offered fall and spring.

254 **Social Psychology (3)** The study of the ways in which the individual is affected by the actual, imagined, or implied presence of others. PREREQ: PSY 100. Offered fall and spring.

256 **Study of Personality (3)** An introduction to the dynamics of personality functioning. Topics such as self-esteem, stress, conflict, frustration, and defense will be explored. PREREQ: PSY 100.

257 **Theories of Personality (3)** A course in personality which examines the theories and writings of Freud, Jung, Adler, Fromm, Erikson, Rogers, and other major personality theorists. PREREQ: PSY 100.

265 **Industrial Psychology (3)** A basic course for business majors and others interested in the psychology of the workplace. Emphasis on the theoretical developments in psychology as these relate to the study of people in organizations and industry. Offered fall and spring.

291 **Psychological Techniques (3)** A survey of a variety of psychological techniques which are applied in the process of observing, diagnosing, and changing problematic human behavior. PREREQ: PSY 100.

325 **Psychological Testing and Measurement (3)** Principles of psychological measurement including standardization, scale transformation, reliability, validity, and item-analysis. Use of tests for the solution of problems in industrial, clinical, and educational settings. PREREQ: PSY 100.

327 **Behavior Modification (3)** A survey of the principles and practices employed in inducing behavioral changes in clinic, institution, agency, and school settings. PREREQ: PSY 100.

335 **Animal Behavior (3)** The evolution and adaptiveness of behavior. Emphasis on physiological, genetic and learning processes underlying animal behavior. PREREQ: PSY 100 or BIO 100 or BIO 110 or permission of instructor.

350 **Motivation (3)** A study of drives, motives, and emotions as determinants of behavior. Physiological and social aspects of motivation will be explored with some attention given to pathological factors. PREREQ: PSY 100.

362 **History and Systems of Psychology (3)** An integrated overview of the history of psychology as well as the systems, theories and fundamental issues with which psychologists have concerned themselves in the past, recent, and current stages of the science. PREREQ: PSY 100, PHI 101 recommended.

363 **Psychology of Learning (3)** Basic laws and theories of learning. PREREQ: PSY 100.

365 **Psychology of Women (3)** A study of the behavior and experience of women. Biological, cultural, interpersonal and intrapersonal determinants of women's actions, thoughts and feelings will be explored. PREREQ: PSY 100. Offered fall and spring.

375 **Abnormal Psychology (3)** The nature and manifestations of normality and abnormality, mental mechanisms and symptoms, psychoneuroses, psychoses, the psychopathic personality and mental deficiency. PREREQ: PSY 100. Junior or senior standing recommended. Offered fall, spring and summer.

382 **Developmental Psychology of Infancy, Childhood and Adolescence (3)** Study of the normal child from conception to puberty. Emphasis on current theoretical issues involved in the effects of early experience and environment. PREREQ: PSY 100.

384 **Developmental Psychology of Adulthood and Aging (3)** Study of psychological development during the mature years up to and including death and dying. PREREQ: PSY 100.

390 **Principles of Counseling and Psychotherapy (3)** A review of theoretical assumptions underpinning various approaches to counseling and psychotherapy, with particular reference to comparative outcome data PREREQ: PSY 256 or PSY 257 or PSY 375.

400 **Senior Seminar in Psychology (3)** Advanced topics in psychology. A written and/or oral presentation describing and analyzing current issues in psychology. Required of all psychology majors. Offered fall and spring.

♦410 **Independent Studies in Psychology (1-3)** Special research projects, reports, readings in psychology. Open to seniors only. PREREQ: Permission of department chairperson. Offered fall, spring and summer.

430 **Human Sexual Behavior (3)** An intensive study of those variables under which human sexual behavior functions. Research from sociological and medical studies is integrated with psychological knowledge. PREREQ: PSY 100. Offered fall and spring.

441 **Field Experience in Psychology I (3)** A work-study program in an educational or mental health facility under joint supervision of the instructor and the staff psychologist of the field institution. Offered fall, spring and summer. Permission of instructor required.

442 **Field Experience in Psychology II (3)** Continuation of PSY 441

443 **Psychology of Group Processes (3)** An exploration of the dynamics of interpersonal behavior in small groups. Theory applied to practice in class. PREREQ: PSY 100; permission of instructor recommended.

445 **Organizational Development (3)** The study of human behavior in task group and organizational contexts. PREREQ. PSY 100; PSY 254 or PSY 265 recommended.

447 **Human Intimacy (3)** A study of processes and factors in establishing, maintaining, and terminating relationships via the use of group methods.

464 **Physiological Psychology (3)** Anatomical, endocrinological and physiological processes underlying behavior, including motivation, emotion, learning and memory. Special attention is given to the biological bases and treatments of mental illness. PREREQ: PSY 100, BIO 100 or 110 recommended. Offered fall, spring and summer.

470 **Sensory and Perceptual Processes (3)** A study of how we process sensory information and perceive our environments. PREREQ: PSY 100.

★ Approved Distributive Requirement Course

♦ This course may be taken again for credit with the approval of the Psychology Department chairperson.

475 Cognitive Psychology (3) Basic research and application in memory and information processing. PREREQ: PSY 100; PSY 363 recommended.

480 Neuropsychological Rehabilitation (3) The theory and practice of cognitive rehabilitation in patients with brain injury and disease. Topics include findings from both basic and clinical research. Methods of cognitive rehabilitation are presented with an emphasis on operant procedures. PREREQ: Consent of instructor or chairperson.

♦490 Topical Seminar in Psychology (1-3) Special topics in psychology not offered under existing regularly offered courses. PREREQ: PSY 100.

Department of Speech Communication and Theatre

Dennis R. Klinzing, *Chairperson*

PROFESSORS: Casagrande, Keefe, Klinzing, Morehouse

ASSOCIATE PROFESSORS: Berkowitz, Bytnar, Hashimoto-Sinclair, Orr

ASSISTANT PROFESSORS: Grice, Hall, Jacobson, McCullough, Newell, Pearson, Reed

INSTRUCTORS: Saddoris

The Department of Speech Communication and Theatre offers two programs leading to the Bachelor of Arts degree and one program leading to the Bachelor of Science in Education.

1. The B.A. in SPEECH COMMUNICATION focuses on oral communication as the core of a liberal education which can be applied to a number of specializations.
2. The B.A. in THEATRE provides students with opportunities to use performing arts to gain a liberal education and to develop their talents and skills in theatre.
3. The B.S. in EDUCATION—COMMUNICATION is for students who wish to meet the state of Pennsylvania requirements for teacher certification in communication.

Majors are expected to meet with their advisors to plan a course of study, to select courses prior to scheduling, to discuss career opportunities and to keep abreast of departmental co-curricular activities. Handbooks are provided to help students to be aware of requirements for each program in the department. Students who wish to transfer into the B.A. Speech Communication program must have a 2.5 G.P.A. or better.

DEPARTMENT-RELATED STUDENT ACTIVITIES

University Theatre, The Forensic Society and the Communication Club are student organizations which involve department faculty and resources. The activities of these organizations are open to all students. For more information see the STUDENT AFFAIRS section.

DEPARTMENT INTERNSHIPS AND PROFESSIONAL APPRENTICESHIPS

Internship experiences are available in all areas related to students' vocational and academic interests. Students have been placed in offices of congressmen, radio and television stations, theatres, and local industries. Students and their placements are screened to assure mutual satisfaction for all parties involved. For details, students should check with the department's internship coordinator.

REQUIREMENTS COMMON TO THE B.A. AND B.S. PROGRAMS

General Education Requirements, see pages 31-33 — 51 s.h.

BACHELOR OF ARTS—SPEECH COMMUNICATION

1. Required Core Courses
   A. Group One Courses—To be completed prior to scheduling Group Two Courses: SPC 204, SPC 208*, SPC 212, SPC 216, SPC 219, SPC 224
   B. Group Two Courses—To be preceded by Group One Courses: SPC 304, SPC 307, SPC 312, SPC 403, SPC 405, SPC 415

   Limited substitutions may be made to core requirements with advisor's written consent. A grade of "C" or better is required in each course and a 2.5 must be achieved in the core requirements before graduation will be recommended.
2. Foreign Language/Culture Requirement, see pages 32-33 — 0-15 s.h.
3. Applied Area — 27-42 s.h.
   Courses are to be selected in consultation with an advisor to meet career objectives.

BACHELOR OF ARTS—THEATRE

1. Required Core Courses for all areas — 46 s.h.
   THA 100 (4 s.h.), SPC 101 or THA 102, THA 103, THA 104, THA 113, THA 209, THA 210, THA 215, THA 301, THA 304, THA 305, THA 306, THA 307, THA 309, LIT 335 or 336.
2. Additional Required Courses for Concentrations — 16 s.h.
   a. Musical Theatre
   b. Acting
   c. Technical Production
   d. Directing

   (See Department Handbook for specific course requirements.)
3. Foreign Language/Culture Requirement — 0-15 s.h.
   See pages 32-33.

BACHELOR OF SCIENCE IN EDUCATION—COMMUNICATION

1. Core Requirements — 30 s.h.
   SPC 208, SPC 219, SPC 415, LIT 200 or 201, LIT 230 or 231, LIT 202 or 203, ENG 230, ENG 331, ENG 335 or 339, ENG 201
2. Emphasis Area Requirements. Choose two areas. — 30 s.h.
   a. Speech Requirements (15 s.h.)
      THA 102, SPC 103, SPC 216, SPC 307, SPC 405. Participation in forensics activities is required.
   b. Theatre Requirements (15 s.h.)
      THA 103, THA 104, THA 210, THA 301, THA 306 or 307 or 308, THA 101 (to be taken as a General Education Arts requirement). Participation in theatre productions is required.
   c. Media Requirements (15 s.h.)
      JRN 200, SPC 212, SPC 202, SPC 220, SPC 217 or 317
3. Professional Education Requirements — 30 s.h.
   EDF 100, EDP 250, EDM 300, EDS 306, EDP 351, EDS 412, SPC 402

MINOR PROGRAMS

1. Speech Communication Minor — 18 s.h.
   SPC 204, SPC 208, SPC 212, SPC 216, SPC 219, SPC 224

*SPC 101 *may* be substituted for SPC 208 but requires approval of department chair.

2. Theatre Minor 18 s.h.
THA 101, THA 103, THA 215 or 216, THA 210, THA 104, THA 301

Either of these minors may be taken as a concentration by students in the Associate of Arts in liberal studies program or as one of the minors in the Bachelor of Arts or Bachelor of Science in liberal studies general degree program.

COURSE DESCRIPTIONS
SPEECH COMMUNICATION
Symbol: SPC

001 Preparatory Speech Communication (1) This preparatory course will introduce the concepts of listening, organizing thoughts, speaking those thoughts to audiences, and dealing with conflicts in college through the use of effective oral communication. These concepts will be taught through assigned reading, lecture discussion and various activities. Emphasis will be on the integration of basic oral communication skills.

101 Speech Fundamentals: Interpersonal Communication (3) Development of competencies for purposeful speech communication. Awareness of the effects of language on communications. Recognition of the types and purposes of a selected number of communications. Grasp of the role of evidence and organization in spoken messages.

105 Voice Dynamics (3) Training in the creative-esthetic production of speech; includes respiration, phonation, articulation and resonation.

200 Communication Careers Planning I (1) This course is designed to introduce the first of a two-phase career planning process. Self-assessment and exploration is provided through assigned readings, mini-lectures, reflective exercises and small group activities.

202 Scripts and Formats for Mass Media (3) Students are required to analyze, evaluate, and produce scripts for a variety of mass media formats. The course emphasis is on radio, television and film

204 Dyadic Communication (3) One-on-one communication to give the student a basic understanding of the processes and experiences of the most basic type of human communication.

208 Public Communication (3) Development of skills necessary to understand the theory of communication as a problem-solving tool in the community. Special emphasis is on the student's performance as a sender and receiver of messages directed at social action.

210 Photo Communication I (3) A basic course in the use of creative techniques available to the beginning photographer for the production of quality slides.

212 Mass Communication (3) A survey course designed to identify, analyze, and evaluate the pragmatic, persuasive, creative, and technical dimensions of mass media.

216 Small Group Communication (3) Introduction to and practice in the structured small group. Emphasis on preparation for, analysis of, and participation in problem-solving oriented groups.

217 Directing and Producing the Documentary Television Programs (3) Planning and producing the non-dramatic television production.

219 Communication Concepts (3) A study of human communication which includes: a historical view of the field; examinations of definitions of communication; analyses of the nature of theory and the process of theorizing; assessment of perspectives of communication; and construction of models of communication.

220 Multi-Media Communication (3) The practical application of communication theory through experiences in photography and multimedia productions. The creative potentials of combining sound and various photographic elements will be explored with special attention given to photo journalism as used in advertising, public relations, theatre and related mass communication studies.

221 Photo Communication II (3) This course will give the student a chance to develop a personal photographic communication style. The student will be encouraged to explore and express his/her personal perceptions through photography.

224 Comunication Research (3) An examination of the nature of inquiry and research in communication. Emphasis on understanding and appreciating the strengths and weaknesses of various methods of research in communication.

230 Business and Professional Speech Communication (3) Practice in effective speaking and listening, reports and sales presentation; policy speeches, conference leadership techniques, group dynamics, speaking; interpersonal communication in the business and professional setting.

300 Communication Careers Planning II (1) This second phase of the careers planning course series examines the initial steps required for finding employment. Topics covered include the job hunt process, resume development, networking, and the transition from college to employment.

303 Modern Trends in Argument (3) Study of the new thinking in argumentation theory. Deemphasizes classic validity and centers on the building of arguments which are acceptable to the hearers. Course focuses on the work of Stephen Toulmin and Chaim Perelman.

304 Organizational Communication (3) An in-depth analysis of the dynamic process of communication as it occurs within organizational networks.

307 Nonverbal Communication (3) A study of the verbal and sensory messages we are constantly receiving. Body language and the uses of space, time, touch, objects and color inherent in the sensory messages we receive.

309 Advanced Public Speaking (3) Designing personal strategies, adapting delivery to large audiences, developing oral use of language and speaking to live or simulated community groups.

310 Field Experience in Photographic Communication (3) This course in slide photography will build on the students' previous experiences in photography. The student will develop the technical, visual and photo communication skills necessary to explore, record and interpret his/her surroundings through photographic essays and related photo communication projects. These skills will be achieved through field experiences and classroom instruction.

312 Intercultural Communication (3) A study into factors which contribute to communication breakdowns between diverse cultures and between fragmented segments within the same society.

315 Structure of Meetings (3) This course prepares students to plan formal agendae, write/interpret organizational by-laws and constitutions, and participate in/preside over meetings according to parliamentary practice.

317 Directing and Producing the Dramatic Television Program (3) Planning the program. Preparing the shooting script. Practice in rehearsing with actors and cameras.

318 Forensics (3) Study in the philosophy and practice of forensics. Initiating, developing, and administrating a forensic program. Coaching and judging debate and individual events.

320 Communicating on Television and Radio (3) For the student who, by career or circumstance, will be required to be on radio and television. The focus of the course will be on three major areas: interviewer/interviewee techniques; acting for television, including working in commercials; and news reporting, including studio and remote locations. PREREQ. THA 103.

330 Oral Communication for Technical Professionals (3) The student will explore the oral component of effective communication as it applies to the business and professional world of mathematics, engineering and science.

355 Public Relations Principles (3) An introduction to the role of the public relations practitioner in the formation of public opinion. Communications theory will be combined with specific techniques for working with the press, producing printed material and conducting special events.

399 Directed Studies in Speech Communication (1-6) Research, creative projects, reports, reading in speech communication. Application must be made to advisors by students one semester in advance of registration. PREREQ: Approval of department chairperson. Open to juniors and seniors only.

400 Internship in Speech Communication (3-15) This course provides a structured and supervised work experience in communication. Credits earned are based on amount of time spent on the job. Students must apply to the department internship coordinator and receive approval of the department internship faculty committee to be admitted.

402 Teaching Communications (3) Theory and practice in teaching junior and senior high school communication and drama courses and in directing co-curricular programs in junior and senior high school.

403 Persuasion (3) Current theories of attitude and attitude change. Practice in speaking to modify behavior through appeals to the drives and motives of the listener. PREREQ. SPC 101 or consent of instructor.

405 Argumentation and Debate (3) Functions and principles of argumentation and debate, including analysis, evidence, reasoning and refutation. Class debating on vital issues.

415 (also LIN 415) Language, Thought and Behavior (3) This course is designed to help students understand the way language functions in the communication process. To accomplish this purpose various language systems will be exam-

ined and one will be selected for in-depth analysis.

499 Communication Seminar (3) Intensive examination of a selected area of study in the field of speech communication. Topics will be announced in advance.

COURSE DESCRIPTIONS
THEATRE

Symbol: THA

100 Theatre Practice (1-3) Laboratory experience in technical aspects of play production. Open to all students.

101 Introduction to Theatre (3) A survey of theatre as a humanity by exploring how theatre reflects its time and country. This course teaches the student what to listen for and what to look for when attending a live theatre performance.

102 (also SPC 102) Oral Interpretation I (3) Theory and practice of oral presentation of various types of literature to an audience.

103 Acting I (3) The first part of a one-year course designed to introduce the basic skills and techniques needed by the developing actor to successfully create a character for performance on stage. Will fulfill the General Education Arts requirement.

104 Stagecraft (3) Planning, construction, painting, rigging, and shifting of scenery. Management of all operations backstage. Laboratory required.

113 Script Analysis (3) To promote the development of the student's analytical faculties in the research and preparation of the play script for a staged production.

202 Oral Interpretation II (3) Advanced work in oral presentation of literature with emphasis on the theory and technique of readers theatre. PREREQ: THA 102.

203 Acting II (3) Second part of a course designed to introduce the basic skills and techniques needed to create a role on the stage. Emphasis on character development.

207 Children's Theatre (3) Production of children's theatre for stage and television. Course elements will include script analysis and production values, publicity and tour preparation. Students enrolled in the course will create a complete production.

209 Creative Drama (3) Theory and practice in creative techniques of expression and dramatic forms to be used as a teaching and recreational device for children and adults.

210 Stage Makeup I (3) Theory and practice in design and application of makeup for the stage. Laboratory required.

215 Costume Design and Construction I (3) The history of European costume from Greek to Elizabethan. Students are required to design costumes for periods studied. Laboratory required.

216 Costume Design and Construction II (3) The history of European and American costume from the 16th century to present day. Students are required to design costumes for each of the periods studied. THA 215 is not a prerequisite. Laboratory required.

301 Directing I (3) An introduction of the theories and techniques of stage direction with emphasis in pre-rehearsal planning, play selection, script analysis and promptbooks, casting and blocking. PREREQ: THA 103, THA 104, THA 113.

302 Scene Construction and Rigging (3) This, course develops a familiarity with scenic construction techniques and materials. Practical solutions to technical problems are discussed. Other topics include theatre safety, technical drawing, and budgeting.

303 Acting III (3) A course for the advanced student actor who wishes in-depth work and study in character building and analysis. Extended scene work and audition materials will also be stressed. PREREQ: THA 203.

304 Scene Design and Painting (3) This course identifies and explores the processes involved in creating a scenic space which is both practical and expressive. Skills in set design, representational painting, scenic drafting, and script interpretation are developed.

305 Stage Lighting (3) Exploration of lighting as a means of artistic communication in the theatre. The course covers the aesthetics, tools, technology, and the graphic methods used to light a play. Special topics in lighting for other performing arts will be discussed.

306 History of Theatre I (3) The development of theatre from Greek to the 17th century.

307 History of Theatre II (3) The development of theatre from the 17th century to the 20th century.

308 Graphics for the Stage (3) An exploration of graphic solutions used in the various stages of planning and executing a setting for the theatre. Scenic design and stage technician drafting techniques and perspective techniques used exclusively in the theatre.

309 Trends in Contemporary Theatre (3) The theatre artists, structures and social milieu whose collective interaction we call contemporary theatre. The creative work being done in America, England, Poland, South Africa and other nations will form the core of the course.

310 Stage Makeup II (3) Theory, development, and application of theatrical makeup according to the play, its period, the style of production, the actor, and the character. Students must have previous knowledge of the basic two- and three-dimensional makeup devices. PREREQ: THA 210.

399 Directed Studies in Theatre (1-6) Research, creative projects, reports, readings in theatre. Application must be made to advisors by students one semester in advance of registration. PREREQ: THA 101, 102, 103, and 104, or permission of instructor.

400 Professional Apprenticeship (3-15) This course provides a structured and supervised work experience in theatre. Students must apply to the director of theatre for permission to enroll.

401 Directing II (3) Play direction as a creative aspect of stage production with emphasis on exploration of concept, techniques of rehearsing a play and working with actors and the role and function of the stage manager.

403 Acting IV (3) Study and scene work in a variety of period styles. Greek, Restoration, Elizabethia and Commedia will be stressed. Student will focus on the physical, intellectual and emotional demands inherent in pre-modern texts. PREREQ: THA 303.

404 Advanced Scenic and Lighting Design (3) Analysis of excellent scene designs of the past. Practice in maximizing the visual impact of stage scenery and lighting. Design projects for selected visually challenging plays. Students design for both student-directed and major productions on campus. One hour of lab. PREREQ: THA 304.

405 Advanced Costume and Makeup (3) In-depth study of costuming and stage makeup for productions. Various styles of productions will be studied. Students prepare for professional portfolio. PREREQ: THA 210 or 310, and THA 215 or 216. Laboratory required.

499 Theatre Seminar (3) Intensive examination of a selected area of study in theatre. Topics will be announced in advance.

School of Business and Public Affairs

Linda Pickthorne Fletcher, *Dean*

Department of Accounting

Clyde J. Galbraith, *Chairperson*

PROFESSORS: A. Naggar, T. Hong, C. Mott

ASSOCIATE PROFESSOR: Hassler

ASSISTANT PROFESSORS: Galbraith, Smith

The Department of Accounting offers a full program of accounting courses designed to prepare a student for entrance into the field of professional accounting: public, private or governmental. Students successfully completing the curriculum should be adequately prepared to take the Certified Public Accountant and Certified Management Accountant examinations.

BACHELOR OF SCIENCE IN ACCOUNTING

1. General Requirements (includes ECO 111*, see appropriate curriculum guidance sheet) (see pages 31-33) — 51 s.h.
2. Business and Economics Core — 39 s.h.
   ECO 112*, ACC 201*-202*, BLA 201*, ECO 251-252, MKT 301*, MGT 301*, FIN 325, MKT 327, MGT 303, ECO 335, MGT 405
3. Other courses required by the Business Program: CSC 101, MAT 107. These courses satisfy and are included under general requirements.
4. Other course required—MAT 108 — 3 s.h.
5. Accounting Major—ACC 301*-302*-305*, ACC 303*-304*, ACC 401*, ACC 403*, ACC 405* — 24 s.h.
6. Economics or Business Electives — 3 s.h.
7. Free Electives — 9 s.h.

(*A minimum grade of C must be achieved in *all* accounting courses.)

Accounting Minor

1. Required — 12 s.h.
   ECO 111, ACC 201-202, ACC 301
2. Electives — 6 s.h.
   Any two of the following courses: ACC 302, 303, 304, 305, 403, 404, 407

COURSE DESCRIPTIONS
ACCOUNTING
Symbol: ACC

The objective of the accounting concentration is to prepare students for accounting careers in business, for the CPA examination, and for the private practice of accounting.

201 Principles of Accounting I (3) Introduction to financial accounting. A conceptual approach to recording, financial summarizing, presentation and evaluation of the financial affairs of a business firm

202 Principles of Accounting II (3) Introduction to management accounting. Accumulating, processing and interpretation of financial data as an input for managerial decisions of a business firm. PREREQ: ACC 201.

301 Intermediate Accounting I (3) Analysis and evaluation of assets, liability, and capital account. Problems of income measurement and recognition. PREREQ: ACC 202.

302 Intermediate Accounting II (3) Continuation of ACC 301. PREREQ: ACC 301.

303 Cost Accounting I (3) Techniques of product unit cost determination and uses of cost data in managerial decisions. PREREQ: ACC 202.

304 Cost Accounting II (3) Continuation of ACC 303. PREREQ: 303.

305 Intermediate Accounting III (3) Continuation of ACC 302. PREREQ: ACC 302.

400 Accounting Internship (3-6) The business internship for students in accounting enhances the student's educational experience by providing a substantive work experience in the business world PREREQ Internship program coordinator's approval.

401 Auditing (3) Introduction to auditing as a tool for verification of the fair presentation of financial statements. PREREQ: ACC 302.

403 Federal Taxation I (3) A study of individual and federal income taxes, with some business application. Emphasis on tax planning for minimization of tax liability. PREREQ: ACC 202.

404 Federal Taxation II (3) A study of the principles of federal income taxation on corporations and corporate distributions, partnerships, estates, and trusts. Emphasis is on tax planning and researching complex problems. PREREQ: ACC 403.

405 Advanced Accounting (3) In-depth study of business combinations and consolidations, government accounting and other specialized topics. PREREQ: ACC 302.

407 Not-For-Profit and Governmental Accounting (3) A study of accounting principles and procedures of not-for-profit and governmental organizations. The course includes accounting for federal government, state and local governments, hospitals, colleges and universities, public schools, and charities. PREREQ: ACC 202.

410 Directed Studies in Accounting (1-3) Special research projects, reports, readings in accounting. Open to seniors only. PREREQ: Instructor's approval.

Department of Criminal Justice

Saul H. Greenberg, *Chairperson*

ASSOCIATE PROFESSORS: Greenberg, Metz

ASSISTANT PROFESSORS: Nealy, Nestlerode, Zumpetta

West Chester's criminal justice curriculum is a broad-based interdisciplinary program combining theoretical concepts with practical aspects. It has been designed to fulfill the needs of four categories of students:

1. Those who wish to undertake a four-year program of study to prepare for careers in criminal justice.
2. Graduates of two-year colleges who desire to continue their education and obtain the bachelor's degree.
3. In-service personnel who would like to increase their professional competence by strengthening their educational background.
4. Those who wish to pursue a master's or law degree.

The program provides the competencies, understanding, and philosophy necessary for professional performance in the various fields of criminal justice. It is not designed to develop specialists in any one specific area; however, students may: 1) choose an associate degree in criminal justice, 2) develop areas of special interest through the selection of electives, 3) choose a minor program from complementary disciplines. The successful student should master and retain career skills immediately useful in the criminal justice system, as well as possess the overall intellectual grasp of the situation where those skills would be appropriate.

An important feature of the program is the one-semester practicum served at a criminal justice agency. Designed to give personal, direct experience, it affords the student the chance to put his or her theoretical knowledge to work.

BACHELOR OF SCIENCE—CRIMINAL JUSTICE

1. General Requirements	51 s.h.
2. Required Courses CRJ 100, 200, 300, 400	12 s.h.
3. Criminal Justice Electives	21 s.h.
4. Practicum CRJ 490	12 s.h.
5. Related Areas, Minor or Electives taken under advisement	30 s.h.

Enrollment in CRJ 100 and 200 is open to all students. However, enrollment in other criminal justice courses may be limited to criminal justice majors and to other students approved by the department.

MINOR—CRIMINAL JUSTICE

1. Required Courses CRJ 100, 200, 300, 400	12 s.h.
2. Criminal Justice Electives	6 s.h.
TOTAL	18 s.h.

This minor may be taken as a concentration by students in the Associate of Arts in liberal studies program or as one of the minors in the Bachelor of Arts or Bachelor of Science in liberal studies general degree program.

COURSE DESCRIPTIONS
CRIMINAL JUSTICE
Symbol: CRJ

#100 History and Philosophy of Law and Justice (3) This course is intended to aid the student in understanding the historical and philosophical influences upon the American criminal justice system, and examine and analyze various other systems of criminal justice found in divergent and dissimilar cultures. The focus of interest will be on the problem of defining the concepts of "law" and "justice" and the emergence of America's moral and ethical values.

200 Introduction to the Criminal Justice System (3) A course designed to describe the criminal justice system from arrest through trial, appeal, sentencing, correction, and parole. The object of this course is to provide the student with a procedural framework of the criminal process.

214 Organized Crime (3) Organized crime is examined as an American phenomenon, then compared to organized criminal activity in Europe and Asia. The student will place in perspective the current organizations in the U.S. and their historical development here over the last century. European groupings are examined as precursors/models of U.S. transplants with insights into the proliferation of such groups in the Far East over time and geography.

220 Corrections (3) The purpose of this course is to provide the student with a survey and analysis of the correctional system and its processes, both a historical and geographical perspective. Emphasis will be placed on relating this survey and analysis to contemporary practice and future trends within the area of corrections.

230 Probation and Parole (3) The intent of this course is to provide the student with an introduction to, and survey of, probation and parole practices from a historical perspective. Assumptions and theories about human behavior, upon which such practices are based, and contemporary and future trends in the field will also be examined.

250 Scientific Crime Detection (3) This course will engender an appreciation of what is entailed for an individual to understand current scientific methods in the criminal justice system.

255 Criminalistics (3) To familiarize the student with the recognition of physical evidence, and its collection and processing at the criminalistics laboratory. Course enrollment is limited.

300 Criminal Law (3) This course will cover the principles of criminal responsibility, the purposes and limitations of criminal law, and the elements of various criminal offenses. Substantive criminal law will cover the conduct, acts, and omissions which have been designated as crimes. These acts (or omissions) plus the mental state and other essential elements that form the necessary ingredients that make up criminal action will be examined. PREREQ: CRJ 200.

310 Juvenile Justice Administration (3) A survey of both the formal (police/courts/corrections) and the informal (diversion) means of dealing with the problem of juvenile crime. Emphasis is not on the behavior but on society's response to it. Emphasis will also be placed on the legal rights of juveniles.

312 White Collar Crime (3) This course analyzes the usually non-violent criminal conduct described as official corruption, systematic crime, or violations of trust that is characterized by calculation, deceit, and personal enrichment. The influence of organized crime is also explored.

330 Criminal Behavior (3) This course exposes students to broad, theoretical positions on crime and to observable criminal offenses. Students will learn to avoid oversimplified, dogmatic answers. Research findings on understanding and controlling crime will be discussed. The course will help a student appreciate the need to integrate contemporary psychology into an understanding of criminal behavior.

340 Victimless Crimes (3) This course is designed to familiarize the student with the ramifications of vice control. It will cover such topics as prostitution, homosexuality, pornography, gambling, and bookmaking, as well as historical perspectives, statutes and interpretations, a comparison of illegal operations, enforcement techniques, and legalization efforts.

368 Industrial Security (3) General definition of the field of "industrial security" with emphasis on loss prevention and protection of assets. Identification of vulnerabilities in business and industry, and specific techniques and approaches for resolving or minimizing such problems.

369 Retail Security (3) An in-depth examination of the various facets and interests of the retail sector of our society. A review and discussion will be undertaken of security management, including selection of personnel, training, budgeting, public relations, employee relations, and their interface with safety and fire protection.

400 Criminal Procedure (3) This course is an examination of the theory and application of the law and rules of evidence for the criminal justice student. It will develop an understanding of the reasons for the rules of evidence and a grasp of the application of the rules in case investigation and for presentation in court through a study of selected cases, statutes, and the analysis of hypothetical cases and situations. PREREQ: CRJ 300

405 Theories of Criminal Justice (3) This course is a survey of the historical and contemporary attempts to explain the phenomena of crime and criminal behavior from the perspectives of sociology, psychology, economics, biology, and law. Emphasis will be placed more on contemporary theory and the analysis of evidence supportive of various theoretical positions.

410 Independent Studies in Criminal Justice (1-3) Research projects, reports, and readings in criminal justice. Permission of department chairperson.

420 Criminal Investigations (3) Criminal investigation functions of police involving crimes of violence, crimes against property and organized crime. Police operational techniques, and applicable court decisions, in the areas of interview, search, seizure, and arrest.

430 Interviewing and Counseling the Offender (3) Techniques of interviewing and counseling applicable to law enforcement and corrections officers. Areas of study include: the initial interview, interrogation, handling the informer, manipulative behavior of offenders, and exit interviews. Role playing and sociodrama are used.

432 Correctional Law (3) A course designed to provide those involved in the correctional process with a basic introduction into the emerging field of law in this area. It encourages under-

standing of rights and responsibilities of the incarcerated offender and of the administrative staff.

435 Assessment of the Offender (3) This course will develop students' abilities to describe, recognize, and understand psychometric measures on adult and juvenile offenders. Topics include. understanding the selection of psychometric measurements, observing and drawing from life histories, understanding how we are trying to predict violent behavior.

440 Violent Crime (3) This course seeks to survey the incidence of violent crime, to analyze the violent criminal, and to study the variety of means that have been developed to control criminal violence.

460 Evidence and Trial Advocacy (3) This course moves a step beyond basic criminal law and criminal procedure studies, and takes the student into the courtroom. The student will learn basic rules of evidence presentation and court procedure, and discover how the trial process works by actively participating in it. The student will learn how to hone the issues, and to present concise, well-reasoned argument supporting a given position. It is in this manner that the student will learn critical analysis and practical presentation. (This course is designed for those students who have completed CRJ 300 and CRJ 400.)

461 Notable Criminal Cases (3) Selected factual accounts of criminality and criminal behavior over the past 75 years are analyzed. Selection is based on notoriety and continued dispute. Course is designed to illuminate through reading and class analysis a wide spectrum of criminal conduct and the related investigative and judicial response.

462 Management Problems and Practices (3) This course is intended to aid in the instruction of students who are potential candidates for future administrative positions. Its objective is neither to present a new approach to the field nor to support an existing one; rather, it is to provide the student with a well-rounded view of the subject and to lay the groundwork for further study. This is done by bringing together the most appropriate concepts and practices in managing an organization; e.g., purpose defining, planning, decision-making, staffing, motivating, communicating, collective bargaining and controlling.

470 Interpersonal Relations (3) This course is designed to aid a student in recognizing changes which have affected him or her and led to the behavior currently exhibited and to recognize how self-understanding leads to understanding relationships with others. The knowledge gained assists students in relating to other persons in their personal, social, and vocational life.

482 Contemporary Legal Issues (3) This course will encompass a brief review of the general principles of law and procedure, followed by an in-depth study of the more controversial legal dilemmas facing today's criminal justice system. The course is designed to shed light on each side of the issue, and to enable the student to see beyond the superficial aspects of the conflict, and to understand its more profound nature.

487 Ethical Issues in Criminal Justice (3) This course is designed to identify and examine ethical issues among practitioners and students in the criminal justice field. Such issues may include: the discretionary power of arrest, the use of deadly force, the decision to prosecute, participation in plea bargaining, representation of the guilty, and the imposition of punishment. Such a course will promote inquiry that combines ethical analysis with a practical awareness of the realities of the criminal justice system.

490 Practicum (12) Independent study based on a vocational placement in a criminal justice agency: police, courts, defense, or corrections. The design of each placement depends on the student's previous experience and area of interest Written biweekly reports and a major paper are required. For seniors only.

496 Criminal Justice Planning (3) This course is intended to aid in the instruction of undergraduate students who are potential candidates for future planning, evaluation or administrative positions. Given the newness of criminal justice planning, this course represents a beginning effort at a comprehensive discussion and review of justice system planning and evaluation.

Department of Economics

Christopher Fiorentino, *Chairperson*

PROFESSOR: Sylvester

ASSOCIATE PROFESSORS: Bove, DeMoss, Mohan, T. Naggar

ASSISTANT PROFESSORS: Benzing, Dunleavy, Fiorentino

The primary objective of the Department of Economics is to provide a learning system that will permit each student to achieve the maximum potential intellectual development in his or her chosen area of study, and to prepare for a satisfying career in that field.

As an aid to the achievement of this purpose, the Department of Economics strives:

(1) To assist students to acquire a fundamental knowledge and understanding of the framework within which our business and industrial system operates;

(2) To acquaint students with the modern techniques used by business and industry to enable them to deal effectively with the changing environment;

(3) To encourage students to develop the ability to analyze situations, to relate and classify pertinent factors, and to derive alternatives for solving problems.

The Department of Economics coordinates its courses with the Department of Accounting, the Department of Management and the Department of Marketing.

Majors in the department must consult the departmental handbook and their advisor annually for current requirements.

Two degree programs are offered:

1. The B.S. in ECONOMICS focuses on a business orientation of economic analysis.
2. The B.A. in ECONOMICS provides a societal orientation to economic analysis.

BACHELOR OF SCIENCE—ECONOMICS

1. General Requirements (Includes ECO 112*, MAT 107 and CSC 101. See appropriate curriculum guidance sheet) (See pages 31-33) — 51 s.h.
2. Business and Economics Core — 39 s.h.
   ECO 112*, ACC 201*-202*, BLA 201*, ECO 251-252, MKT 301*, MGT 301*, FIN 325, MKT 327, MGT 303, ECO 335, MGT 405
   (*A minimum grade of C− must be attained in each of these courses.)
3. Other courses required by the Business Program: CSC 101, MAT 107. These courses satisfy and are included under general requirements.
4. Other course required—MAT 108 — 3 s.h.
5. Economics Major—ECO 340, 348 and three additional 300 level or above courses in economics or finance. — 15 s.h.
6. Economics or Business Electives — 9 s.h.
7. Free Electives (includes nine s.h. for general requirements) — 21 s.h.

BACHELOR OF ARTS—ECONOMICS

1. General Requirements, see pages 31-33 — 51 s.h.
2. Foreign Language Requirement — 0-15 s.h.
3. Social Science Electives — 9 s.h.
4. Economics Major Requirement — 36 s.h.
   ECO 111-112, 340, MAT 107-8, ECO 335, 348, 251-2; additional departmental courses
5. Electives (six s.h. of electives may be economics courses) See department advisor. — 5-20 s.h.

ECONOMICS MINOR

Students may minor in economics. Course requirements are ECO 111, 112, 340, 348, plus two economics electives selected under departmental advisement. (MAT 107, 108 are prerequisites for ECO 340, 348.)

COURSE DESCRIPTIONS

ECONOMICS

Symbol: ECO

★101 Principles of Economics—Survey (3) Basic principles underlying production and consumption activities in our modified capitalistic economic system, from the aggregate as well as individual and sectoral standpoints. Issues include competition, unemployment, inflation, economic growth, and alternative systems.

†111 Principles of Economics I (Macro) (3) National income and its measurement. The determination of price levels, output, and employment. Money and credit, expenditures, and economic stability. Government fiscal and monetary policy. PREREQ: Working knowledge of high school mathematics is required.

†112 Principles of Economics II (Micro) (3) Principles underlying use and allocation of scarce productive resources. Consumption and production activities. Value, price, and income distribution. Considerations of economic efficiency and welfare. PREREQ: Working knowledge of high school mathematics and ECO 101 or 111.

251 Quantitative Business Analysis I (3) Considers the fundamental ideas of statisical theory that are appropriate for solving problems in the fields of business and economics. Topics include: descriptive statistics, probability theory, sampling and estimation, hypothesis testing. PREREQ: MAT 107.

252 Quantitative Business Analysis II (3) Continuation of ECO 251. Topics include hypothesis testing, simple multiple regression analysis, and Bayesian inference. PREREQ: ECO 251 and MAT 108.

303 Economic Role of Women (3) Statistical information pertaining to one of the most important changes in American economy in this century, the increase in the number of working women. Job related aspects such as the historical pattern, labor force participation, education, earnings, labor supply, sex discrimination. PREREQ: Junior level standing or instructor's approval.

333 Consumer Economics (3) Major kinds of economic decisions required of consumers, an evaluation of the social and economic consequences of those decisions.

334 Labor Economics (3) Application of economic theory to the operation of labor markets and the collective bargaining process. Consideration is given to the development of the labor movement and public policy toward labor and employment. PREREQ: ECO 112.

335 Money and Banking (3) A survey of money, credit and prices, emphasizing their effects on economic stability. The Federal Reserve System and its effect on credit control. PREREQ: ECO 112.

336 Regulation of Competition (3) Background and development of public policies which directly modify the free enterprise economy of the United States. Evaluation of policies which change the nature and extent of competition. PREREQ: ECO 112.

337 Economic Growth and Development (3) A survey and critical evaluation of alternative theories of capitalist economic development. Analysis and comparison of alternative public policies applicable to underdeveloped countries and regions. PREREQ: ECO 112.

338 International Economics (3) A descriptive, analytical examination of international trade, financial, and other economic relationships. The effects of public policies on these relationships. PREREQ: ECO 112.

340 Intermediate Microeconomics (3) A continuation and extension of the price-system analysis in ECO 112. Emphasis on the need for efficiency in the economy's use of scarce productive resources. PREREQ: ECO 112 and MAT 108.

341 Public Finance (3) Government's influence on stability of national income. Nature of taxes and expenditures at the various levels of government and their effect on the allocation of resources and the distribution of income. PREREQ: ECO 112.

343 Comparative Economic Systems (3) Basic ideas and economic institutions of socialism, communism, and capitalism in the twentieth century: problems created by the emergence of competing systems. PREREQ: ECO 112.

345 History of Economic Thought (3) Origins of economic thought and comparison of the major schools of economic doctrine. Current economic and socio-political factors. PREREQ: ECO 112.

347 Managerial Economics (3) A course which seeks to develop managerial judgment. The premise is that technical application, to be successful, must proceed from economic feasibility. One plan is weighed against another in terms of comparative costs and revenues, return on investment, plant-replacement problems, obsolescence, and depreciation. PREREQ: ECO 112 and 252, ACC 202 and MAT 108.

348 Intermediate Macroeconomics (3) Introduction to the theory of income, employment, and growth. Provides the tools to analysis necessary for dealing with aggregate economic problems. PREREQ: ECO 112 and MAT 108.

350 Urban Economics (3) Economic aspects of such urban problems as poverty, housing, taxation, income distribution, and discrimination. Analysis of economic aspects of various proposed remedies, including urban renewal, family allowances, cooperatives, and others. PREREQ: ECO 112.

385 Environmental and Resource Economics (3) A study of the role of the environment in the workings of an economic system. Topics include energy economics, the economics of renewable and non–renewable resources and the economics of pollution. PREREQ: ECO 112 and MAT 108.

401 Introduction to Econometrics (3) Statistical and mathematical techniques applied to economic situations. Use of empirical data in economic analysis. PREREQ: ECO 112 and 252 and MAT 108.

410 Independent Studies in Economics (1-3) Special research projects, reports, readings in economics. Open to seniors only. PREREQ: Instructor's approval.

411-412 Internship (3 or 6) The internship is open to majors in economics only. It is intended to enhance the student's educational experience by providing substantive work experience in the real world. PREREQ: Approval of the chairperson of the Economics Department.

FINANCE

Symbol: FIN

315 Financial Markets and Institutions (3) Covers a variety of domestic and international financial markets and institutions. Analysis is provided for the structure, operation, and mechanics of these markets and institutions along with the financial instruments traded therein. PREREQ: ECO 112 and 335.

325 Corporation Finance (3) The organization and financing of the modern corporation. Promotion, capitalization, short-term financing, capital budgeting, distribution of earnings, expansion, consolidation, failure, and reorganization. PREREQ: ECO 112 and 251, and ACC 202.

326 Intermediate Financial Management (3) A second course in managerial finance. Emphasis is distributed between theory and practice. Once understood, good theory is common sense, and solving problems reinforces the practical applications. PREREQ: FIN 325 and CSC 101.

330 Principles of Insurance (3) The nature and types of risk management and insurance coverage are considered. Conceptual analysis and the impact of financial deregulation on personal and business risk management and insurance are covered. PREREQ: ECO 112 or instructor's approval.

332 Real Estate Finance (3) This course provides a basic orientation to the financial instruments and institutional structures and policies of real estate finance. PREREQ: ECO 112 or instructor's approval.

344 Investments (3) Problems and procedures of investment management; types of investment risks; security analysis; investment problems of the individual as well as the corporation. PREREQ: ECO 112 and 251, and ACC 202.

350 Investment Analysis and Portfolio Management (3) A second look at investment opportunities. This course assumes a basic understanding of the existence and function of financial assets. Each category of assets is studied from a theoretical perspective. Theories are then applied to the study of trading strategies. Problem solving is emphasized. PREREQ: FIN 344.

370 Problems in Financial Management (3) Case problems in corporate financial management. Includes cases on management of current assets, obtaining short term loans, raising long term capital, capital budgeting, and divided policy. PREREQ: FIN 325.

Symbol: INB

401 International Finance (3) Development of financial managerial knowledge and skills to understand the working of the corporate financial function in a global setting. PREREQ: FIN 325.

★ Approved Distributive Requirement Course

† ECO 111-112: Approved two-semester substitute for distributive requirement

Department of Geography and Planning

Arlene C. Rengert, *Chairperson*

PROFESSORS: Rengert, Thomas

ASSOCIATE PROFESSORS: Bielski, Grassel, Tachovsky

ASSISTANT PROFESSORS: Fasic, Muller, Sutherland

Geography and Planning is a multi-faceted discipline that bridges the physical and social sciences. In this discipline, a student studies the patterns and processes of human and physical phenomena in relationship to each other. Students gain knowledge that can be applied to resolving societal problems and to planning for the future, whether they are taking general education or elective courses, acquiring specialized preparation needed for working in geography and planning and related fields, or meeting particular needs in combination with other majors in arts and sciences or professional fields.

The field of geography assists students in comprehending the broad scope of the physical/cutural/economic environment on local, national, and global scales. Geography courses develop skills and organize knowledge from various disciplines, and enable students to examine the integrated whole of a people with reference to habitat and interspatial relationships. Specialized skills such as Geographic Information Systems technology and computer cartography provide saleable skills in high demand for students interested in technical careers, and complement courses which teach knowledge of human situations and problems.

BACHELOR OF ARTS — GEOGRAPHY

The Bachelor of Arts in geography offers a choice of three emphases (called "tracks"): traditional geography (regional courses; cultural and economic geography), geographic analysis, and urban/regional planning. The geographic analysis and urban/regional planning are areas which emphasize skill development; internships are available and are recommended in those areas.

1. General Requirements, see pages 31-33 — 51 s.h.
2. Foreign Language/Culture Requirement — 0-15 s.h.
3. Additional Social Science Courses — 9 s.h.
4. Geography Core Requirements — 34 s.h.
   Required: GEO 102, 210, 225, 326, 400, 404 (19 s.h.)
   Geography electives (under advisement) (15 s.h.)
5. Cognate Courses — 15-18 s.h.
   Courses (under advisement) which are specifically related to identified career aspirations, and chosen outside General Requirements, or Geography Core.
6. Free Electives — 4-19 s.h.

BACHELOR OF SCIENCE IN EDUCATION—GEOGRAPHY CONCENTRATION

This is a professional-degree program designed to prepare certified secondary school teachers of social studies. The curriculum involves on overall social studies exposure with a concentration in geography. See the description under SOCIAL STUDIES: B.S. IN EDUCATION, pages 101-102. All students in the geography concentration must complete seven courses from a specified list of physical and human geography courses.

GEOGRAPHY AND PLANNING MINORS

Geography Minor

The geography minor provides a flexible geography focus which combines well with other majors. The minimum of 18 semester hours includes:

Required Course: GEO 101 or 102 or 103

Elective Courses (under advisement from the department): Any two of the following: GEO 200, 204, 210, 212, 220, 225 and three other GEO courses, no more than one of which may be a 100-level course. This flexibility allows the student interested in environmental courses to build a sequence of those, the student interested in international courses to build knowledge of regions of the world, the student interested in urban issues to collect together courses in urban geography, and the student interested in geographic techniques of analysis to study computer cartography, geographic information systems, etc.

Planning Minor

The minor program in planning allows students from other majors to acquire geography and planning skills and to expand their career possibilities to include such areas as land planning and management, conservation of resources, location of commerce and industry, and county or other local government. The minor requires a minimum of 18 semester hours.

Required Course: GEO 214

Elective Courses: (under advisement from the department): GEO 210; GEO 212 or 320; GEO 216; GEO 225 or 401; GEO 322; GEO 324 or 326 or 330; GEO 328; GEO 402; GEO 403; GEO 415.

COURSE DESCRIPTIONS

GEOGRAPHY

Symbol: GEO

★101 **World Geography (3)** The scope of geography and its special place in the cultural spectrum. Human society is examined in a frame of spatial, environmental, and resource factors. Emphasis is placed on developing skills in the use of the "tools" of geography.

102 **Physical Geography (3)** The study of basic principles of physical geography and of relationships between components of the total earth environment.

★103 **Human Geography (3)** An inquiry into the theoretical and applied approaches to the study of human spatial behavior and the distribution of social problems.

200 **Patterns of World Cultures (3)** An examination of selected, non-Western areas, representing different stages of development, in the contemporaneous world. Emphasis is placed on cultural adaptation, innovation, and achievement of human occupants of these areas. PREREQ: ANT 102.

204 **Introduction to Urban Studies (3)** An examination of the breadth of urban studies from the perspectives of many social science disciplines. Special emphasis is placed on Philadelphia as an objective of perception, as a place of life and livelihood, and as an example of continual change of the urban environment. PREREQ: ENG 121

205 **Geographic Influences in American History (3)** Geographic characteristics which bore prominently on the discovery and colonization of America, and on the progressive development of the United States up to the 20th century.

210 **Population Problems (3)** The dynamic processes of population change (fertility, mortality, and migration) and the resultant changes in population distribution and composition. In addition to substantive study of these topics, students are introduced to use of primary data sources for demographic description and policy recommendation.

214 **Introduction to Planning (3)** The method of analyzing problems of urban and regional planning. Emphasis is placed on systems of

★Approved distributive requirement course

housing, recreation, transportation, industry, and commerce.

216 Planning for Public Service (3) A study of the quality of individual life. Analysis of geographic variation in social well being, problems of social systems monitoring, and social indicators used in planning.

220 Location of Economic Activity (3) Introduction to basic theoretical models of agricultural, industrial and settlement geography. Emphasis is placed on fundamental methods of geographic analysis.

225 Map and Aerial Photo Interpretation (3) A laboratory course designed to develop skills in and promote an understanding of maps and aerial photos. Offered in fall.

230 Conservation of Natural Resources (3) An inquiry into the type, size, and distribution of natural resources, and into the problems of resource management. Emphasis is placed on the United States.

232 Environmental Crises (3) The nature and dimensions of environmental problems with emphasis on endangered life-support systems. Aspects of natural and social environment systems, and their mutual interrelationships.

236 Climatology (3) Climatic variations on the earth and their classification into regional types. Relationships of plants, soils, and cultures to types of climate. PREREQ: GEO 102 or permission of instructor.

301 United States and Canada (3) An examination of the complexity and diversity of the physical and human landscapes of the U.S. and Canada. Both rural and urban geography are studied with an emphasis on recent geographic changes of influence—such as the shift from an emphasis on production to one on service and consumption, the growing importance of cities and increasing racial and ethnic diversity.

302 Latin America (3) Middle and South America are studied with emphasis on understanding the major sources of change in recent times. There is focus on 3-4 specific countries in addition to presentation of the region as a whole.

303 Europe (3) A regional study of Europe, excluding the U.S.S.R. and its satellites, includes a macro-study of the continent, and sequential micro-studies of culturalized landscapes. PREREQ: GEO 101 or permission of instructor.

304 The Soviet Union (3) A regional study of European and Asiatic U.S.S.R. with analysis of geographic factors in relation to strengths and weaknesses as a major world power. PREREQ: GEO 101 or permission of instructor.

312 Urban Geography (3) Analysis of patterns, processes, and consequences of urban growth and development. Theory of systems, size, spacing, and functions of cities. Students will conduct outside analysis using real data.

320 Land Use Planning (3) An inquiry into the development of comprehensive land use studies by governmental and private agencies, emphasizing the development of skills in problem identification and resolution. PREREQ: GEO 214 or permission of instructor.

322 Land Development Controls (3) An insight into the why and how of land development, emphasizing the role of local government in zoning, subdivision regulation, and other land regulations. PREREQ: GEO 214 or permission of instructor.

324 Data Systems for Planning (3) An inquiry into primary data sources needed in the planning process, emphasizing appropriate applications and limitations of data. PREREQ: GEO 214 or permission of instructor.

326 Geographical Analysis (3) Applications of basic statistical techniques to problems of spatial significance, emphasizing the adaptation of technique to problem, and the understanding and interpretation of specific analytical methods as applied to real-world situations.

328 Computer Graphics (3) Designed to develop skills in the design and use of analytical and computer-mapping systems, the course emphasizes the techniques of spatial problem-resolution and display. PREREQ: GEO 225 or permission of instructor.

330 Population Analysis (3) A course designed to develop skills in demographic research, emphasizing interrelationships of population processes, use and limitation of data sources, and the understanding and interpretation of specific demographic and related analytical methods. PREREQ: GEO 210 or permission of instructor.

338 Computer Applications in Social Research (3) The use of existing and student-generated programming software in the design and execution of social research.

400 Senior Seminar in Geography (3) The study of historical and contemporary trends in geography; the design, preparation, and defense of a research proposal.

401 Cartography (4) A laboratory course to develop proficiency in the design, construction, and appropriate application of maps and map related graphics. Offered in spring. PREREQ: GEO 225 or permission of instructor.

♦402 Topical Seminar in Geography (3) Intensive examination of a selected area of study in the field of geography. Topics will be announced at the time of offering. Course may be taken more than once when different topics are presented. PREREQ: Junior or senior geography major or consent of instructor.

403 Presenting Planning Information (3) Selected experiences designed to assist the student (either as an individual, or as a member of a group) in developing proficiency in information-providing techniques.

404 Senior Project in Geography (3) The execution of the research proposal (designed in GEO 400) as an acceptable departmental senior research paper. PREREQ: GEO 400.

♦410 Independent Studies in Geography (3) Research projects, reports, and readings in geography. PREREQ: Permission of department chairperson.

♦415 Internship in Geography and Planning (3-15) Practical job experience in applying geographic theory, executing substantive research, and engaging in community service in selected off-campus situations. Open only to upper-division B.A. majors and minors in geography/planning.

♦This course may be taken again for credit.

Department of Management

Hung M. Chu, *Chairperson*

PROFESSORS: Chu, Paden

ASSOCIATE PROFESSORS: Selvanathan, McGee, Snow

ASSISTANT PROFESSORS: Hamilton, Murphy

The primary objective of the Department of Management is to provide students with the skills required to effectively manage business and public organizations.

To accomplish this objective, the faculty of the Department of Management will strive:

(1) to inculcate in the student the ability to reason analytically and critically.
(2) to make the student sensitive to the human relations aspect of managing others.
(3) to increase the student's awareness of the concepts and terms used in current managerial practice.
(4) to increase the student's awareness of the international dimension of business.
(5) to increase the student's skills in communicating in written and verbal form.
(6) to foster the student's ability to synthesize the knowledge acquired from various disciplines in order to focus on managerial problems.

The Department of Management offers a B.S. in MANAGEMENT, which focuses on functions required to make a group of people work effectively together as a unit. These functions include planning, organizing, staffing, directing and controlling.

REQUIREMENTS FOR THE MAJOR

1. General Requirements 51 s.h.
   (Include ECO 111*, see appropriate curriculum guidance sheet and catalog, pages 31-33)
2. Business and Economics Core 39 s.h.
   ECO 112*, ACC 201*-202*, BLA 201*, ECO 251-252, MKT 301*, MGT 301*, FIN 325, MKT 327, MGT 303, ECO 335, MGT 405
   (*A minimum grade of C must be attained in each of these courses)
3. Other courses required by business programs: CSC 101, MAT 107. These courses satisfy and are included under general requirements.

4. Other courses required: MAT 108 — 3 s.h.
5. Major concentration — 15 s.h.
   MGT 302, MGT 400, MGT 402, MGT 406, MGT 408
6. Economics or Business Electives — 9 s.h.
7. Free Electives — 12 s.h.

COURSE DESCRIPTIONS

MANAGEMENT

Symbol: MGT

101 Introduction to Business (3) A survey of the structure and function of the American business system. Topics covered: forms of business organization, fundamentals of management, fundamentals of marketing, basic accounting principles and practices, elements of finance, money and banking, business and government, careers in business. Open to non-business majors.

301 Principles of Management (3) An introduction to the principles and functions of management. Examines the management process, organizational theory, planning, decision making, motivation, and leadership in supervisory context.

302 Human Resource Administration (3) The study of a well-planned, properly executed and efficiently evaluated approach to manpower recruitment, screening, usage and development. Case analysis and/or experiential exercises to illustrate the concepts used. PREREQ. MGT 301 or consent of instructor.

303 Production and Operations Management (3) Methods analysis, work measurement, wage incentives. Production process and system design. Plant location, layout, sales forecasting, inventory, production, and quality control, to include statistical aspects of tolerances, acceptance sampling, development of control charts, PERT, and cost factors. PREREQ: CSC 101 or equivalent, MGT 301, ECO 111, 112, 251, 252.

334 Labor Relations (3) Rise of the American labor movement. Labor legislation. Labor compensation under collective bargaining arrangements. Procedures in settling labor disputes. Organized labor's policies and practices for higher wages and improved working conditions. PREREQ: MGT 301.

400 Senior Seminar in Management (3) Students are engaged in reading and research on current developments in management. Research project is required to help expand and deepen the horizons of the participants PREREQ: Senior standing.

401 Entrepreneurship (3) The organization of a business venture with emphasis on the risk of the initial operation, and management. Consulting opportunities are provided and periodic progress report required. PREREQ: MGT 301, 302 or instructor's approval.

402 Organization Theory and Behavior (3) Study of the theoretical foundations of organization and management. The system of roles and functional relationships. Practical application of the theory through case analysis. PREREQ: MGT 301.

405 Business Policy and Strategy (3) A capstone course for all business majors, requiring students to integrate and apply multidisciplinary knowledge and skills in actively formulating improved business strategies and plans. Case method predominates. Written reports. PREREQ. senior standing in ACC, ECO, FIN, MKT or MGT major; prior or concurrent completion of all courses in Business and Economics Core except ECO 335.

406 Introduction to Management Science (3) Business problems in production, inventory, finance, marketing and transportation translated into application of scientific methods, techniques, and tools to provide those in control of the system with optimum solutions. PREREQ: MGT 303 or instructor's approval.

407 Systems Management (3) The application of systems theory and principles to the operation of contemporary organizations, with emphasis on non-quantitative methods of analysis. PREREQ: MGT 402.

408 Business and Society (3) An analysis of social, political, legal, environmental and ethical problems faced by business firms.

410 Independent Studies in Management (1-3) Special research projects, reports, readings in management. Open to seniors only. PREREQ. Instructor's approval.

450-451 Management Internship (3-6) The management internship is designed to enhance the student's educational experience by providing a substantive work experience in the business world. PREREQ: Internship program coordinator's approval.

MANAGEMENT INFORMATION SYSTEMS

Symbol: MIS

200 Introduction to Management Information Systems (3) A comprehensive introduction to the role of information systems in an organizational environment. This course focuses on transforming manual and automated data into useful information for managerial decision making

350 Systems Analysis and Design (3) The course develops the necessary skills for analysis of a management information systems problem and design of a working information systems solution. PREREQ. MIS 200.

360 Decision Support Systems (3) This course is an advanced presentation of the role of management information systems on the special support needs of managers in decision making. The information needs of management in terms of structured through unstructured decision making is examined. PREREQ. MIS 200 and CSC 141.

INTERNATIONAL BUSINESS

Symbol: INB

301 Introduction to International Business (3) Analysis of international business transactions in large and small businesses, multinational and domestic. Functional emphasis on multinational environment, managerial processes, business strategies.

402 International Management Seminar (3) Study of issues confronting executives as they plan, organize, staff and control in a multinational organization. Lectures, case analyses and outside projects with local firms engaged in, or entering international business will be utilized. PREREQ: MGT 301.

Department of Marketing

Angelos C. Ballas, *Chairperson*

PROFESSORS: Ballas, Green

ASSOCIATE PROFESSOR: Morgan

The primary objective of the Department of Marketing is to prepare students for careers in business and government. To accomplish this, the faculty of the Department of Marketing will strive:

(1) to create an understanding of the role that marketing plays in the American and foreign social and economic systems.

(2) to create an understanding of the scope and content of marketing as an apparatus of the mind used to reconcile company profitability with customer satisfaction and social responsibility.

(3) to assist students to acquire skills required for a successful marketing career in business in the United States as well as in foreign countries.

(4) to offer students the opportunity to learn and use modern management technologies.

(5) to understand the legal and ethical framework of competition and business conduct.

The B.S. in MARKETING focuses on activities required to get goods and services from producers to consumers. Emphasis is on understanding consumers' needs and designing strategies to meet these needs.

DEGREE REQUIREMENTS:

1. General Requirements — 51 s.h.
   (Include ECO 111*, see appropriate curriculum guidance sheet and catalog, pages 31-33)
2. Business and Economics Core — 39 s.h.
   ECO 112*, ACC 201*-202*, BLA 201*, ECO 251-252, MKT

301*, MGT 301*, FIN 325, MKT 327, MGT 303, ECO 335, MGT 405
(*A minimum grade of C must be attained in each of these courses.)

3. Other courses required by the business program: CSC 101, MAT 107. These courses satisfy and are included under the general requirements.
4. Other courses required: MAT 108 3 s.h.
5. Major concentration courses: 15 s.h.
   MKT 303, MKT 320 or MKT 322, MKT 400, MKT 404, MKT 408.
6. Economics or Business Electives 9 s.h.
7. Free Electives 12 s.h.

COURSE DESCRIPTIONS

LAW
Symbol: BLA

201 **American Legal System** (3) Examines the enforcement of social goals upon business organizations through law. The constitutional basis for administrative regulation of businesses, the practice and nature of administrative regulation, administrative procedure, and the principal subjects of current administrative regulation will be surveyed.

202 **Special Subjects in Business Law** (3) Covers the legal topics of contracts and sales in depth. It is intended as a partial preparation for the uniform CPA examination and thus provides students with an adequate knowledge of the most widely examined subjects. Provides marketing students with a detailed knowledge of the legal topics which they will use in their careers and covers basic legal topics highly useful to management majors and all persons engaged in practical business–related occupations.

303 **Legal Problems in Business** (3) Special legal problems in business will be considered at length, such as consumer credit regulation, insurance, personal law relating to decedent's estates and social security, preparation for the CPA examination, etc. This course may be taken more than once (but not more than three times) for credit if the subject matter of the course is not duplicated.

INTERNATIONAL BUSINESS
Symbol: INB

302 **International Legal Environment** (3) Study of laws governing international economic activities, public and private law (conflicts of laws). Basic differences between American and foreign legal systems will be analyzed. Differences in organizing companies, security laws, antitrust laws, and trade regulations are also studied.

MARKETING
Symbol: MKT

301 **Principles of Marketing** (3) A study of marketing in our consumer–oriented society and the management of marketing activities, including buying, selling, promotion, physical distribution, product planning, and consumer behavior. PREREQ: ECO 112

303 **Consumer Behavior** (3) Foundations of consumer behavior. Market structure and consumer behavior; purchase strategy and tactics; determinants and patterns of consumer behavior. An integrated theory of consumer behavior is sought. PREREQ: MKT 301

320 **Managing Sales** (3) Source, technique, and theories applied to problems encountered in managing a sales force in the areas of administration, policy, organizational structure, personnel selection and evaluation, sales training, compensation, forecasting, establishing territories and quotas, and sales analysis. Emphasis on case studies. PREREQ: MKT 301

321 **Salesmanship** (3) Analysis of the selling process applied to sales calls and sales strategies, communication, persuasion, motivation, ethics, interpersonal relationships, negotiations, and professionalism. Emphasis on case studies. PREREQ: MKT 301

322 **Advertising and Sales Promotion** (3) A study of advertising and sales promotion management with a major focus on organization, media, strategy, campaigns, legal control, consumer behavior, budgeting, and the coordination of these activities with the overall marketing programs. PREREQ: MKT 301

327 **Marketing Management** (3) Study of policy decision-making. Organization and analysis of marketing opportunities; policy decisions regarding product, price, marketing channels, physical distribution, advertising, and sales marketing models and systems. PREREQ: MKT 301

400 **Senior Seminar in Marketing** (3) A capstone course designed to offer the student practical experience in the practices and policies of the American marketing system. A deeper understanding and appreciation of the marketing executive's effort to balance the firm's objectives with existing or potential market opportunities. The class works in groups. Emphasis on field work, consulting, computer simulations, case development. PREREQ: Senior standing or instructor's permission.

401 **Marketing Channels** (3) Distribution strategy; efficient planning of space, time, and distribution costs to meet consumer demand; alternatives in channel structure, policies, management and leadership; methods for improving channel performance; channel strategy in the future. PREREQ: MKT 301

404 **International Marketing** (3) Historical and theoretical background of foreign trade; world marketing environment, world market patterns; marketing organization in its international setting; international marketing management. PREREQ: MKT 301

408 **Marketing Research** (3) Systematic definition of marketing problems; strategies for data collection; model building; interpretation of results to improve marketing decision making and control. PREREQ: MKT 301, ECO 251, ECO 252.

410 **Independent Studies in Marketing** (1-3) Special research projects, reports, readings in marketing. Open to seniors only. PREREQ: Instructor's approval.

450-451 **Marketing Internship** (3-6) The Marketing Internship is designed to enhance the student's educational experience by providing a substantive work experience in the business world. PREREQ: Internship program coordinator's approval.

490 **Special Topics in Marketing** (3) Special topics in marketing not covered under existing regularly offered courses. PREREQ: MKT 301 and permission of instructor.

Department of Political Science

Louis F. Weislogel, *Chairperson*

PROFESSORS: Brady, Marbach, Milne, Shea

ASSOCIATE PROFESSORS: Burns, Burton, Eldredge, Iacono, Sandhu, Smith, Weislogel

ASSISTANT PROFESSOR: Polsky

The Department offers a variety of programs tailored to students career goals and allows a wide-range of options following graduation:

Bachelor of Arts—Political Science is a general liberal arts program exposing the student to the broad areas of political science including American government, international relations, comparative government, public administration, political behavior and political theory.

Bachelor of Arts—Political Science/Public Administration is for students who plan a career in public service. It includes relevant courses from the Geography and Planning area.

Bachelor of Arts—Political Science/International Relations is for students with a primary interest in international affairs; includes relevant cognates in several disciplines.

All three Bachelor of Arts programs are intended for students with an interest in government and public service, journalism and the law.

Bachelor of Science in Education—Social Studies offers concentrations in general social studies, geography, and political science.

The department is also the home of the Law Society, Pre-Law advising, and the Political Science Club.

BACHELOR OF ARTS—POLITICAL SCIENCE

The B.A. in political science is designed for those with interest in understanding their society and the world. It has the same broad relevance as other liberal arts degrees and special relevance for careers in such fields as pre-law, politics, public relations, and journalism. Internships may be arranged.

1. General Requirements, see pages 31-33 — 51 s.h.
2. Foreign Language/Culture Requirements — 0-15 s.h.
3. Additional Social Science Courses in each of three disciplines not selected under General Requirements, plus HIS 152 — 12 s.h.
4. Political Science Requirements — 33 s.h.
   A. American Government and Politics (PSC 100) and Foundations of Political Science (PSC 200)
   B. One course in each of the following six fields: international relations, political behavior, political theory, comparative-government, American government, and public administration
   C. Political Science Symposium (PSC 399) or approved substitute elective
   D. Senior Project (PSC 401)
   E. Two additional political science courses above the 100 level
5. Additional Free Electives — up to 30 s.h.

BACHELOR OF ARTS—INTERNATIONAL RELATIONS

The international relations concentration is intended for the student who wishes to deepen his or her understanding of world affairs. It is appropriate for students planning careers in areas related to international affairs as well as pre-law, politics and journalism.

1. General Requirements, see pages 31-33 — 51 s.h.
2. Foreign Language, intermediate level — 0-12 s.h.
3. Political Science Requirements
   A. Core: PSC 100 or 121, 200, 213, 217, 401, and 399 or approved substitute elective — 18 s.h.
   B. Required Cognate: HIS 357 — 3 s.h.
   C. Additional International Cluster (two of the following): PSC 256, 311, 315, 316, 317, 319, 414 — 6 s.h.
   D. Related Political Science (three of the following): PSC 246, 340, 341, 342, 343, 348 — 9 s.h.
4. Related Cognates (five courses in at least four disciplines): — 15 s.h.
   May substitute up to six additional hours of foreign language beyond the 202 level; HIS 330, HIS 331, GEO 200, GEO 210, ECO 337, ECO 338, SOC 376, SOC 275, ANT 102, SPC 409
5. Additional Free Electives — up to 30 s.h.

POLITICAL SCIENCE MINOR

Students may minor in political science generally or in one of the sub-fields such as international relations. Students take PSC 100 plus five courses in a concentrated area or (at least two) areas under departmental advisement. Total required hours: 18.

This minor may be taken as a concentration by students in the Associate of Arts in liberal studies program or as one of the minors in the Bachelor of Arts or Bachelor of Science in liberal studies general degree program.

COURSE DESCRIPTIONS
POLITICAL SCIENCE
Symbol: PSC

★100 **American Government and Politics (3)** Devoted to understanding how the system works: political action, elections, interest groups, civil liberties, Congress, the presidency, and the courts are among the topics considered. Seeks to provide a framework in terms of which process and current issues become meaningful. Offered each semester.

★121 **Introduction to Government and Politics (3)** Survey of fundamental concepts in political science. Considers nature of the state, freedom, sovereignty, equality, theories of representation, other areas. Offered each semester. Non-majors only.

200 **Foundations of Political Science (3)** Incorporates techniques for analyzing political questions logically and systematically, and introduces basic research design, methodological and library usage skills appropriate to the political science discipline. Required course for B.A. majors in political science, public administration, international relations and B.S. in Education, political science concentration majors. Optional course for minors in political science, public administration and international relations. PREREQ: PSC 100. Cannot be used to meet University General Education requirements.

204 **Introduction to Urban Studies (3)** An examination of the breadth of urban studies from the perspectives of many social science disciplines. Special emphasis is placed on Philadelphia as an object of perception, as a place of life and livelihood, and as an example of continual change of the urban environment. PREREQ: ENG 121.

★213 **International Relations (3)** Politics among nations, including politics carried on through international organizations. Examines power politics, techniques of diplomacy, and methods of current international organizations. Special attention to U.S. interests and policies.

217 **American Foreign Policy (3)** Cultural, political, economic, and psychological influences on policy; process of decision making. Special attention to a few policy areas such as relations with allied, underdeveloped, revolutionary, or Communist countries. Possible response to threats of war, population growth, resource shortages, and pollution may be examined.

246 **Soviet Politics (3)** Marxism-Leninism, the functioning of the political system and its domination of all areas of Soviet life. Some brief attention to the conduct of Soviet foreign policy.

252 **Civil Liberties and Civil Rights (3)** A survey of the sources of civil liberties and civil rights in the United States with an inquiry into contemporary problems and their solutions through statutory and constitutional developments.

256 **Energy and the Political Process (3)** Stresses the process of policy making and implementation in the field of energy. Emphasis is also given to foreign policy and natural security implications.

301 **Women in Politics (3)** The role of women in politics is surveyed. Considerations include the relationship between the sexes as it impacts politics.

311 **Soviet Foreign Policy (3)** Emphasis on Soviet-American relations since 1945 and a comparison of the two societies. Topics treated include influence of Marxism, Great Russian nationalism, and historical experience on Soviet foreign relations. PREREQ: PSC 213, or 246 or permission.

315 **War or Survival (3)** Examines the use of military force, and the economic, social and political impact of militarization, and nuclear weapons strategy. Considers arms control and disarmament, alternative security systems and the citizen's role.

316 **World Order: Problems, Approaches, and Prospects (3)** Examines global interdependence, conflict and cooperation regarding contemporary and future world problems (nationalism, resources, etc.). Considers alternative approaches to cooperation and means of bringing about change.

317 **Contemporary International Relations (3)** Recent issues and problems with special emphasis on superpower behavior around the world; third world revolutions; international terrorism; human rights, international law and the United Nations and the changing international economic order.

319 **Middle Eastern Politics (3)** Topics include the Arab-Israeli conflict, the politics of the Persian Gulf, the role of OPEC and the superpower conflict in the region.

322 **Public Opinion, Propaganda, and Political Behavior (3)** The dynamics of opinion formation and change; the role of public opinion in policy formation; political socialization, survey research and political socialization, survey research and propaganda techniques considered.

★ Approved distributive requirement course

323 Racial and Ethnic Politics (3) This course examines the relationship between racial and ethnic groups' political behavior and the American political system's response to them in the sense of public policies.
324 American Political Parties (3) Patterns, functions, and history of the American political party system at national, state and local levels. Theoretical and empirical studies of political interest groups, public opinion and voting behavior.
329 Judicial Behavior (3) A behavioral approach to the law, with specific reference to conceptual, methodological and ideological considerations. Depending on availability of information, role-playing simulations with students becoming judges and attorneys.
338 Introduction to Political Thought (3) Great political thinkers of Western Civilization from Plato to the present. Historical background of Western thought and its relevance to the present political world.
339 Contemporary Political Thought (3) Consideration of major political thinkers since Marx. Includes writings and political significance of Marcuse, Fromm, Lenin, Trotsky, and the Democratic Socialists.
340 Latin American Culture and Politics (3) Comparative analysis of contemporary Latin-American systems. Political cultures, decision-making, ideologies, political processes. Emphasis is on Mexico and Central America.
341 Politics of Non-Western Areas (3) Emphasis on the general problems of nation-building, political participation, and elite-mass relationships in the less–developed nations. African nations, Latin America or Asia may be emphasized. PREREQ: PSC 100 or equivalent.
342 Government and Cultures of Western Europe (3) Primary attention focuses on France, West Germany, and Great Britain; secondary attention on other European systems. Political cultures, popular participation, political parties, and formal institutions of government. PREREQ: PSC 100 or equivalent.
343 Culture and Politics of Asia (3) Study of cultural, philosophical and political systems of modern Asia with special emphasis on China, Japan and India.
348 African Culture and Politics (3) The political nature and practices of individuals, organizations, and government of Black Africa are examined in the cultural context of the contemporary independent period. PREREQ: PSC 100 or equivalent.
349 Comparative Communism (3) Comparative analysis of the ideological, political, social, and economic systems of Communist nations. Concentration is on comparisons between the Soviet Union and Communist China, but other Communist systems are considered. PREREQ: PSC 100 or equivalent.
350 American Constitutional Law (3) The development of the American constitutional system as reflected in leading decisions of the United States Supreme Court. Emphasis on national powers, federalism, and the Bill of Rights. PREREQ: PSC 100 or consent of instructor.
355 Congressional Politics (3) Deals with the internal and external factors which influence Congressional behavior; includes the role of the constituents, pressure groups, parties, the committee system, rules and the leadership. Relationships to president and court structure and impact of electoral politics also considered. Comparisons with state legislatures.
356 American Public Policy (3) Actual policy; its formation and execution. Policy areas considered vary from semester to semester. May include role-playing simulation. PREREQ: PSC 100 or 101 or permission of instructor.
359 The American Presidency (3) In-depth analysis of the nature and significance of the American presidency, including constitutional development, presidential roles and customs, the recruitment process, the executive branch, and the politics of the presidency. PREREQ: At least a "C" in PSC 100 and junior level status or instructor's permission.
399 Political Science Symposium (3) Nature of research in political science. Construction of a research design. Extensive reading in an area of political science. Offered each semester.
400 Senior Seminar in Political Science (3) Research in political science. Methodology, bibliography, and presentation, both oral and written. The research paper for the seminar must be acceptable as a required departmental senior research paper.
401 Senior Project in Political Science (3) Execution of the research design constructed in PSC 399. Involves completion of a major senior paper under supervision of a staff member. Extensive independent effort. PREREQ: PSC 399. Offered each semester.
410 Independent Studies in Political Science (1-3) Research projects, reports, readings in political science. Open to seniors only. PREREQ: permission of instructor.
412 Internship in Political Science (3-15) Upper level student field placement learning. Short term 3- to 6- hour experiences in political settings under faculty advisement; and 9- to 15-hour placements in state, federal, local governmental/ public serving agencies. Learning contracts and faculty advisement create a whole experience from exposure to government administration and political interface. Offered each semester.
414 International Theory (3) General theory applied to specific case studies. Advanced readings.

Political Science/Public Administration Programs

BACHELOR OF ARTS—POLITICAL SCIENCE/ PUBLIC ADMINISTRATION

The B.A. in political science with a concentration in public administration is interdisciplinary and intended to prepare students for a variety of possible alternatives in state, local, and national government as well as with private interest groups. The program features internship experiences with participating agencies.

1. General Requirements, see pages 31-33 — 51 s.h.
2. Foreign Language/Culture Requirements — 0-15 s.h.
3. Additional Social Science Courses — 9 s.h.
   (in each of two disciplines not selected under General Requirements) plus HIS 152
4. Public Administration Concentration — 21-27 s.h.
   PAD 364, PSC 356 or PAD 374, 361 or 363, 375 or 376, 377, 378, GEO 214, plus two additional Geography and Planning courses under advisement.
5. PAD 412 Internship — 0-15 s.h.
6. Political Science Symposium (PSC 399) or approved substitute elective
7. Senior Project (PSC 401)
8. PSC 100, 200 and one additional course at 200 or 300 level — 9 s.h.
9. Cognate Requirements — 6 s.h.
   MAT 103 or MAT 121, SPC 230 or SPC 208
10. Additional Free Electives — up to 24 s.h.

POLITICAL SCIENCE: MINOR IN PUBLIC ADMINISTRATION

Students take PSC 100 and PAD 364 plus five additional courses in public administration under departmental advisement. This minor may be taken as a concentration by students in the Associate of Arts in liberal studies program or as one of the minors in the Bachelor of Arts or Bachelor of Science in liberal studies general degree program.

COURSE DESCRIPTIONS POLITICAL SCIENCE/PUBLIC ADMINISTRATION

Symbol: PAD

361 State and Local Government (3) Examination of the organization, functions, and politics of state and local government, including analysis of politics in states, counties, cities and towns in urban, suburban and rural areas. Intergovernmental relations in education, transportation, and welfare policy are examined.

363 Urban Government (3) Structures and processes of central city and suburban government are considered. Examines patterns and trends in governmental organization and administration as well as sources of conflict in urban decision making, e.g., the urbanization process,

race and class antagonism, and city-suburban perspectives.

364 Elements of Public Administration (3) Considers public administration in the United States as a process of implementing public policy. Uses case studies and projects with texts focusing on organizational theory, human behavior and motivation, budgeting, personnel, and administrative responsibility. Offered each semester.

369 Politics of Bureaucracy and Administrative Behavior (3) In-depth examination of the fourth branch of government. Impact of the administration apparatus (bureaucracy) on public policy formulation and implementation. Case studies and student projects.

373 American Intergovernmental Relations (3) Designed to familiarize students with the complex network of conflict, cooperation and interdependence among national, state and local government units. Topic areas, among others, include an analysis of the continuing evolution of American federalism; an examination of this relationship from state and city government perspectives; and a description of specific intergovernmental fiscal programs and policies.

374 Municipal and Administrative Law (3) An in-depth examination of the impact of municipal law and local regulation and its social, economic, and political impact. Attention to such areas as zoning.

375 Government Finance (3) Policy choices for public sector economic activity. National, state and local activities in allocation, distribution, stabilization functions; grants-in-aid, taxation, student projects in revenue studies PREREQ PAD 364, ECO 101 or 111.

376 Government Budgeting (3) Institutions and processes of budget formulation, authorization, and implementation at national, state, and local levels. Varying formats for budgets, line-items, PPBS, Zero-base, PDS will be developed by students for some unit of government. PREREQ PAD 364, ECO 101 or 111.

377 Government Personnel and Management (3) Examination of governmental recruitment practices, including current personnel classification and compensation policies, as well as government selection, recruitment, and promotion procedures Managerial functions of oversight, supervision and motivation are heavily emphasized. Recommended PREREQ. PAD 364

378 Public Organizations: Theory and Practice (3) Nature of public organizations such as government agencies, the environment of their operations, relations to public and private organizations, theories of their structure and behaviors, stressing the public setting and political processes which provide their functioning environment.

412 Internship in Public Administration (3-15) Same as PSC 412, but students with public administration concentration must meet PREREQ. PAD 364 Offered each semester.

Social Studies With Concentrations in Political Science

Students interested in teaching any, or all, secondary school social studies may pursue a concentration in political science while earning state certification and the Bachelor of Science in Education degree. See description under Social Studies on pages 101-102.

Department of Social Work

Mildred C. Joyner, *Chairperson*

ASSOCIATE PROFESSORS: Bartlett, Ross

ASSISTANT PROFESSORS: Hodgins, Joyner, McCutcheon

The Social Work Program combines a liberal arts foundation with the analytical framework of the social and behavioral sciences and the principles and methods associated with the professional generalist practice of social work. The student applies theory to practice in the varied field experiences of the sophomore, junior, and senior years. The ultimate goal of this program is to have the student develop a basic competency and skills in generalist social work practice.

The Social Work Program is accredited on the baccalaureate level as a professional degree in social work by the Council on Social Work Eductaion.

Students interested in majoring in social work should take Introduction to Social Welfare I (SWO 200) and Development of Professional Self (SWO 220) during the fall and spring semesters of their freshman year. Students are required to maintain a 2.5 cumulative average in general education requirement courses and social science cognate courses, and a 2.5 average in all social work courses for continuance in the social work program. Students are also expected to demonstrate attitudes and behavior consistent with the values and ethics of professional social work and the social work code of ethics. A student needs a 2.75 overall G.P.A. to be eligible for certification upon graduation by the Council of Social Work.

TRANSFER STUDENTS FROM OTHER COLLEGES OR UNIVERSITIES

Students transferring from other colleges or universities as sophomores or juniors must make an appointment with an appropriate faculty member of the Department of Social Work to discuss their status in regard to admission to the program.

SOCIAL WORK FIELD PLACEMENTS

Juvenile Court of Delaware County
Brandywine Hospital
Women's Alternatives
Chester County Board of Assistance
Chester County Children's Services
Crozer Chester Medical Center
Delaware County Children & Youth
Delaware County Intermediate Unit
Help Counseling Drug & Alcohol Program
Family Service-Mental Health Centers of Chester County
United Cerebral Palsy of Chester County
Travelers Aid Society
West Chester Area Schools
A.I. DuPont Institute
Ronald MacDonald House
Planned Parenthood
Chester County Services for Seniors
Eagleville Hospital
Delaware County Juvenile Court
Haverford State Hospital
First Step of Chester County
Paoli Hospital
Pathway School

Philadelphia Psychiatric Center

Veteran's Administration

Domestic Relations Court

The undergraduate Social Work Program at West Chester University is accredited by the Council of Social Work Education, as a professional program.

BACHELOR OF ARTS—SOCIAL WORK

1. General Requirements, see pages 31-33 — 51 s.h.
2. Foreign Language Requirements (second half of the intermediate year) — 3 s.h.
3. Social Science Cognates — 9 s.h.
4. Social Work Concentration — 57 s.h.
   SWO 200, 201, 220, 225, 300, 320-321, 350-351, 375, 395, 431, 432, 450-451, 495-496
5. Cognates (Psycho-Social Foundation) — 6 s.h.
   Select four courses, under advisement.
6. Electives — 3 s.h.

Social work majors should choose with their advisor an interdisciplinary elective geared to their learning needs and professional interests.

MINOR IN SOCIAL WORK

A minor in social work offers students (1) an understanding of the purposefulness of human behavior, (2) a professional method with which to deal effectively with that behavior, and (3) knowledge of the varied fields of practice of social work and how they relate to the student's chosen major field. In some instances a collaborative field internship with the student's major discipline will be designed.

Students take SWO 200, 201, 225, 300, 320, 321 and an elective social work course with advisement. Total required hours: 18.

COURSE DESCRIPTIONS
SOCIAL WORK
Symbol: SWO

PRIMARILY FOR FRESHMEN AND SOPHOMORES

200 Introduction to Social Welfare I (3) Current social problems and the influence of societal values upon their definition and upon the structures devised to meet them. Two hours per week of volunteer experience in a social agency. Offered in the fall.

201 Introduction to Social Welfare II (3) The history of social welfare in the United States, and an overview of major fields of social work practice with emphasis upon legislation and policy formulation. Offered in the spring.

220 The Development of a Professional Self (3) Students are provided background knowledge and skills to function professionally in society. The course adopts the psychological perspective that links self concepi and its development with group behavior, the function of social reality, and social role. Offered in the spring.

222 Human Service Professionals and the Law (3) A study of legislation and case law affecting social welfare programs for the development of an understanding of legal reasoning and key areas of legal knowledge. (Elective)

225 Race Relations (3) Emphasis is placed on racial awareness by examining racial, ethnic, and cultural differences of minority groups in the United States. Offered in the fall, spring.

B.A. COURSES FOR SOCIAL WORK MAJORS AND OTHER UPPERCLASSMEN

300 Social Welfare Systems I (3) Introduction to selected items in systems analysis, emphasizing application to understanding family systems and the organizational framework of human behavior. Offered in the fall.

320 Principles and Methods of Social Work Practice I (3) The integration and application of the general list model to the problem-solving method of social work. Offered in the fall.

321 Principles and Methods of Social Work Practice II (3) A continuation of SWO 320. Offered in the spring.

350 Psycho-Social Foundations of Human Behavior I (3) Examination of life stages of early childhood through adolescence. Offered in the fall.

351 Psycho-Social Foundations of Human Behavior II (3) Continuation of SWO 350. Focus on middle adulthood to aging. Offered in the spring.

375 Field Placement (3) Junior year field experience for the social work major. Offered in the spring.

395 Junior Seminar. A practice seminar designed to relate to the student's field placement. Offered in spring.

421 Mental Health and Social Work Practice (3) The scope of mental health services and specific practice skills for social work with mentally disturbed or retarded clients. (Elective)

423 Special Skills in Child Protective Services (3) Emphasis is placed on understanding child abuse and neglect, assessment of persons in crises, and treatment for the abused and neglected child in today's society. (Elective)

431 Methods of Social Inquiry (3) Fundamentals of problem identification, research design, sampling, observation, data collection and reduction, and non-statistical analysis. Offered in the spring.

432 Social Legislation (3) A theoretical framework for the analysis, formulation, implementation, and change of social policy, governmental guidelines, and social legislation. Offered in the fall.

COURSES FOR SOCIAL WORK MAJORS ONLY

◆410 Independent Studies in Social Work (1-3) Special research projects or practices in social work. Juniors and seniors only. PREREQ: permission of department chairperson. Offered in the fall, spring, summer.

◆450-451 Field Experience I-II (6) (6) Supervised work experience in a social agency. Seniors only. Offered in the fall, spring.

◆495 Senior Seminar in Social Work (3) Integration of field and classroom experiences to discuss the applications of the generalist model to the helping process. Offered in the fall.

496 Social Work Process Seminar (3) Seminar on social work process designed to relate to the second semester field experience. Offered in the spring.

◆ This course may be taken again for credit.

School of Education

Michael Hanes, *Dean*

Department of Childhood Studies and Reading

Robert Szabo, *Chairperson*
K. Eleanor Christensen, *Assistant Chairperson*

PROFESSORS: Chern, Hall, Hasselquist, Holman, Keetz, Maxim, Peta, Petkofsky, Radich, Ziegler

ASSOCIATE PROFESSORS: Christensen, Dunlap, Gibson, Grasty-Gaines, Habecker, Hasson, Peters, Szabo, Zimmerman

ASSISTANT PROFESSORS: Baloche, Egan, Maggitti, Summers

The Department of Childhood Studies and Reading certifies teachers for elementary education (K-6), and early childhood education (NK-3).

The B.S. Ed. in ELEMENTARY EDUCATION curriculum is designed to provide a broad background of general education, an understanding of children, and the knowledge and skills needed to teach all aspects of the elementary school program. Upon satisfactory completion of the approved program, the student will qualify for a Pennsylvania Instructional I Certificate, valid for six years of teaching in kindergarten and grades one through six.

The B.S. Ed. in EARLY CHILDHOOD EDUCATION curriculum is designed to provide both the liberal education and special preparation required for careers in public and private school teaching and directorship and supervisory work in early childhood programs other than those under the auspices of the public schools. Upon satisfactory completion of the program, the student will qualify for a Pennsylvania Instructional I Teaching Certificate valid for six years of teaching in preschool, kindergarten, and grades one through three.

REQUIREMENTS COMMON TO BOTH PROGRAMS

1. General Requirements: See pages 31-33. 51 s.h.
   Literature, philosophy, art, MAT 101, and Introduction to Psychology are required.
2. Professional Education 12 s.h.
   EDF 100, EDP 250, EDM 300, EDP 351*

BACHELOR OF SCIENCE IN EDUCATION— ELEMENTARY EDUCATION
(Curriculum K-6)

1. Specialized Preparation 61 s.h.
   EDE 200, EDE 251*, EDE 310*, EDE 311*, EDE 312*, EDE 332, EDE 352*, EDE 401*, EDE 406*, EDE 410, EDE 411, HEA 301, LIT 395, MAT 351***, MUE 231, PED 200, SCE 310*.
2. Elective Area (See Concentration Areas)

In order to meet the degree requirements, the student must choose from concentration areas by selecting: (1) any one of the concentrations or (2) any combination of courses from any combination of concentrations. The teaching certificate is not affected by any chosen area except for the certification programs in private school, early childhood, and environmental education. Concentrations in disciplines should be pursued under advisement.

Students who want to take a concentratiaon offered in a department other than Childhood Studies and Reading should consult with the chairperson or assigned advisor of the specific discipline.

NOTE: Art and physical education courses may count toward the General Requirements.

BACHELOR OF SCIENCE IN EDUCATION—EARLY CHILDHOOD EDUCATION
(Curriculum NK-3)

Specialized Preparation 70 s.h.
ECE 100, ECE 221*, ECE 225*, LIT 352, ECE 231*, ECE 232, HEA 211, ECE 306, ECE 307, ECE 310, MUE 232, ECE 320, PED 449, ECE 321, ECE 325, MAT 351, ECE 405, ECE 410, ECE 411.

Admission to the Early Childhood Certification Program is limited. Entering students should apply during the first semester of their first year.

NOTE: The music and physical education courses may count toward the General Requirements.

APPLICATION AND APPROVAL FOR STUDENT TEACHING

Students must apply through the department for approval for student teaching in early childhood (ECE 410 and ECE 411) and in elementary education (EDE 410 and EDE 411). To apply, the student must complete 96 semester hours with a cumulative G.P.A. of 2.50 prior to the student teaching semester. As part of the 96 credits, the student must complete all professional education courses and all specialized preparation courses with a G.P.A. of 2.50. (See also student teaching, pages 103-104.)

An application for student teaching must be filed in February prior to the academic year in which student teaching is to be scheduled. Application meetings will be announced at the beginning of the spring semester each year. Scheduling student teaching is done as for other courses.

The following policies apply to all students entering the Department of Childhood Studies and Reading.

INTERNAL TRANSFER STUDENTS (undeclared majors and change of majors) who desire admission into the Department of Childhood Studies and Reading may apply after the completion of 30 semester hours at West Chester University. Of the courses listed under Specialized Preparation (see above) only ECE 100, EDE 200, and EDE 251 may be taken for degree credit prior to formal acceptance into the department. A cumulative grade point average of 2.25 for students who have earned up to 64 credits and a 2.50 for students who have earned 65 or more credits plus an interview are prerequisites for acceptance into the department.

STUDENTS TRANSFERRING FROM COMMUNITY COLLEGES AND JUNIOR COLLEGES who desire admission into the Department of Childhood Studies and Reading may apply only with a grade point average of 2.25 for 64 credits earned and a 2.50 for 65 or more credits. Transfer credit will be granted for freshman and sophomore level courses if (a) the course descriptions are equivalent and (b) the grade is C or above. All other required courses in the professional education and specialized preparation areas will be evaluated and approved on an individual basis.

*Courses requiring prerequisites — check catalog.
***Prerequisites are MAT 101 and MAT 102 (unless waived by examination).

MINOR FIELDS OF STUDY IN DEPARTMENT OF CHILDHOOD STUDIES AND READING

A. *Early Childhood Education:* ECE 231, EDE 251, ECE 232 (six credits, class and field experience), ECE 324, ECE 405.

B. *Elementary Education:* EDE 251, EDE 310, EDE 311, EDE 401, EDE 406; free elective, EDE course, with approval of the department.

C. *Reading*—Required courses for all students: EDE 311 or ECE 310, EDE 422, EDR 310, EDR 321
Elementary and Early Childhood students: EDE 312 or ECE 325; EDE 458
Secondary students: EDR 313
Electives—for all students—(1-2 courses by advisement) LIN 250, SPC 415, SPC 250, PHI 360, SPP 101, LIN 380, LIN 381, PSY 475, EDE 401.

Students in this department are required to supply their own transportation to field experiences.

COURSE DESCRIPTIONS
CHILDHOOD STUDIES AND READING

Symbol: ECE

100 Orientation to Early Childhood (3) An introduction to the history and philosophy of Early Childhood Education. Field observations in a variety of settings provide the student with an opportunity for career decision making.

221* Child Development (0-2 years) (3)** Physical, social, emotional, and intellectual development of the child 0-2 years. Parallels are drawn from this phase of child development to students' self-development. This course must be taken the same semester with ECE 225. See below. PREREQ: PSY 100.

225* Infant Learning Environment and Field Experience (6)** The study and use of developmental tests for the diagnosis of infant needs. The relationship of developmental level to the structuring of learning environment is developed as students interact with infants in school and home settings for three hours per week. This course must be taken the same semester with ECE 221. See above.

231 Child Development (2-5 years) (3) Physical, social, emotional, intellectual and moral development of the child 2-5 years. Parallels are drawn from this phase of child development to students' self-development. PREREQ: PSY 100.

232 Preschool Learning Environment (3-6) Methods and materials for structuring the classroom environment for the child 2-5 years. Readiness skills and concepts in all curricular areas are addressed.

306* Child's Social Environment (3)** A consideration of methods of instruction that best generate a social education meaningful to primary grade children. Emphasis is placed on providing a learning environment that parallels the maturation of the young child.

307* Child's Physical Environment (3)** A consideration of methods of instruction that best generate a child's knowledge of the physical world which is meaningful to primary grade children. Strategies for cognitive skills and affective growth in these areas are stressed.

310* Introduction to the Language Arts (3) The areas of listening, speaking and writing are studied in depth. Knowledge, teaching and evaluative techniques are addressed. Introduction to the reading process and the relationship of language to reading will also be studied.

320* Creative Arts for the Young Child (3)** Workshop, seminar and field experiences provide opportunities for students to explore, manipulate and analyze a wide variety of media and techniques appropriate for use with young children. Activities are aimed at encouraging the development of the young child's creative potential through the arts.

321* Child Development (5-8 years) (3)** Physical, social, emotional, intellectual, and moral development of the child 5-8 years. Parallels are drawn from this phase of child development to students' self-development. PREREQ: PSY 100.

324* Early Childhood Programs (3) Study of contemporary program models in Early Childhood Education. Major trends in education of young children are defined.

325* Teaching Reading and Field Experience (Primary Grades) (6)** The teaching of reading and its mastery is the focus of this course. Students apply knowledge of theories and practices in supervised field placements in schools with children 5-8 years. Tutoring of individual children and small groups is integrated with planning and evaluation of lessons and activities as well as remediation. PREREQ: ECE 310.

405* Administration and Supervision of Early Childhood Programs (3) Principles of administration and supervision of programs for young children. Includes parent education and community relations. PREREQ: ECE 232.

410* Student Teaching (6)** (First half of semester)

411* Student Teaching (6)** (Second half of semester) Two separate student teaching experiences are required: one in nursery or kindergarten and one in grades 1-2 or 3. Weekly practicum sessions are required. PREREQ: See Application and Approval for Student Teaching.

498 Workshop in Early Childhood Education (3) Offers wide variety of experiences to help prepare students to provide an environment for optimal growth of children in preschool and primary grades.

Symbol: EDE

200* Theory and Field Experiences in Elementary Education (3) Orientation to the curricula, processes, and structures of elementary education today. Field experiences related to course topics.

251* Child Development and Behavior (3) Emotional, social, mental, moral, physical, and self factors shaping human behavior with emphasis on child and early adolescent development. Specific application to classroom settings. PREREQ: PSY 100.

253 Human Development and Behavior (3) Physical, mental, emotional, social, moral, and self factors shaping human behavior throughout the life cycle; specific application to work with individuals and groups in educational settings. PREREQ: PSY 100.

254 Development in the Middle School Child (3) Characteristic development and behavior of children between 10 and 15 years of age; understanding and working with these children in educational settings. PREREQ: EDE 251, 253 or their equivalent.

310 Communication Skills in the Elementary School (3)** Study of teaching the language skills in the elementary school: listening, speaking, and writing. Students also participate in a tutorial program in local schools. PREREQ: EDE 251.

311 Introduction to Reading Instruction (3)** An exploratory course investigating the reading process, language and learning theories and their relation to reading, historical scope of and various programs of reading studied and evaluated. PREREQ: EDE 251, 310 (or taken concurrently).

312 Reading Instruction and Practicum (6)** Focus is on mastery of the teaching of developmental reading and early reading and pre-reading experiences. The students learn how to plan, teach and evaluate the reading/thinking skills related to the instruction of reading in the elementary classroom. Students work in the public schools with small and large reading groups teaching various aspects of the reading lesson. Students also learn how to evaluate pupil performance and remediate minor reading problems. PREREQ: 311 (Students need special permission to take 311 concurrently.)

315 Developmental Reading for the Handicapped Child (3) The focus of this course is the study of the nature of the reading process and its relation to language development; motivation and methodology for developmental reading skills; reading programs and materials; problems in dealing with handicapped children; and practicum in reading instruction. Required course for special education majors only.

330 Instructional Programs and Strategies (3) Introduction to principles underlying the development of instructional programs in the schools. Strategies include cognitive and skill learnings and modes of teaching.

332* Teaching Social Studies in the Elementary School (3) Methods of teaching social studies and geography in the elementary curriculum. Techniques, current research projects, reading materials, audio-visual aids, resource persons, and field trips used as tools of learning. The organization, development, and use of resource units are stressed. PREREQ: EDE 200, 251

352* Self and Group Processes in the Classroom (3) Analysis of self processes influencing teacher-student classroom interactions. Role of needs, defenses, motives, emotions, and early learning experiences as they shape the prospective teacher's responses to elementary children. Application of social learning and interpersonal theory. PREREQ: EDE 251.

401* Creativity in the Classroom (3) Exploration of materials and processes of children's perceptions and behavior, aimed at encouraging the development of their critical and creative poten-

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*Open to Early Childhood and Elementary Education majors or permission of instructor
**Open to Elementary Education majors only
***Open to Early Childhood majors only

tials. PREREQ. EDE 312.

406* Classroom Management (3) Detailed investigation into the elementary teacher's role in classroom management. Teacher influence, personality, and class interaction; class roles and expectation; seating plans; discipline; referral; the teacher's role in evaluating and identifying potential problems in children. PREREQ: EDE 312.

409 Independent Study (1-3) Special topics or projects initiated by the student which will enable her/him to do extensive and intensive study in an area of elementary education which will sharply increase her/his knowledge of elementary education. PREREQ: Permission of department chairperson.

410** Student Teaching (6) (First half of semester)

411** Student Teaching (6) (Second half of semester) Two separate student teaching experiences are required: one in grades K-3 and one in grades 4-6. Weekly practicum sessions are required. PREREQ. See Application and Approval for Student Teaching.

412** Work-Study in the Elementary School (6) Limited practicum for pre-service teachers who have taken EDE 200, 251, 311, 312, 406. Students work for a full term in one school district under supervision. Six credits may be granted toward student teaching requirements (EDE 411). PREREQ. departmental approval.

421 Seminar in Elementary Education (3) An intensive study of some current major developments in elementary education. Topics announced in advance. PREREQ: Senior standing and instructor approval.

422* Seminar in Reading (3) Intensive study of some current major developments in reading related to elementary education. Topics announced in advance. PREREQ. Instructor's approval.

423* Seminar in Communications Skills (3) Intensive study of some current major developments in communications skills (language arts) related to elementary education. Topics announced in advance. PREREQ: Instructor's approval.

458* Language Arts/Reading for the Unique Child (3) An open-ended course to help students understand and plan instructional programs for the linguistically different, the gifted, and those with special needs (mainstreaming). The students will examine various strategies, techniques, management, and viable programs for teaching these children language arts/reading.

481* Constructing Activity-Oriented Teaching Materials (3) A workshop experience for students interested in exploring the many facets of making activity-oriented learning materials for the elementary school classroom. PREREQ: EDM 300.

489 Teaching Skills to Combat Sexism (3) This course is offered to create awareness in prospective teachers of the extent and consequences of sex-role stereotyping at all levels of educational experience. It will develop specific skills, behaviors, and classroom strategies that can eliminate effects of sexism in classrooms and on students and deal effectively with emotion-laden content of combating sex-role stereotypes.

498 Workshop in Elementary Education (3) Offers wide variety of experiences to help prepare students to provide an environment for optimal growth of children in grades K–6.

Symbol: EDR

100 College Reading and Study Skills (3) An individualized course to develop reading and study skills such as comprehension, vocabulary, speed, remembering, concentration, taking notes, mastering a text assignment, preparing for and taking examinations. Offered fall and spring semesters.

110 Developing Learning Skills (1) A course which reviews and develops the specialized learning skills such as concentrating when studying, reading a textbook assignment, taking notes, preparing for and taking examinations, which are needed to study effectively at the college level. Students who wish to review their study habits or who have special needs in the area of study skills should enroll in this course. Offered fall and spring.

313 Reading Instruction and Practicum in the Secondary Schools (6) Focus is on the mastery of teaching reading in the middle/secondary schools. Students will study the role of the teacher as well as learn how to sequence both developmental and content area readings.

321 Diagnosis and Remediation of Reading Problems (3) Identifying the nature and causes of reading disabilities; experience in helping a child with reading problems. Offered fall and spring semesters. PREREQ: EDE 311 or permission of instructor.

323 Reading for the Handicapped: Diagnosis and Remediation (3) Reading materials, programs, evaluations, and teaching strategies for the mentally handicapped/physically handicapped are examined and discussed. Students develop and utilize reading materials in a classroom situation. Offered spring semester. PREREQ: Permission of the instructor.

420 Reading in the Content Areas (3) Understanding the reading process and the need for reading instruction at the middle and secondary school level; specific skill development; reading in the content areas; readability; evaluation. Offered fall and spring semesters.

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*Open to Early Childhood and Elementary Education majors or permission of instructor
**Open to Elementary Education majors only
***Open to Early Childhood majors only

Department of Counselor, Secondary, and Professional Education

Wallace J. Kahn, *Chairperson*
Julian M. Swiren, *Assistant Chairperson*

PROFESSORS: Buechele, Deischer, C. Good, Hsu, Kahn, G. Thomas, S. Walters

ASSOCIATE PROFESSORS: Gadaleto, Holingjak, Leeds, Paganelli, Rahn, Silverman, Swiren

ASSISTANT PROFESSORS: Kurzinsky, Napierkowski.

The degree of Bachelor of Science in Education, which prepares the student for teaching in the secondary schools, may be earned with academic specialization in biology, chemistry, communication, earth and space science, English, French, general science, German, Latin, mathematics, physics, Russian, Spanish, or social studies (which includes concentrations in anthropology, economics, geography, political science, philosophy, psychology, history and sociology).

Satisfactory completion of a secondary curriculum will also qualify the student for a Pennsylvania Instructional I Certificate, which is valid for six years of teaching the specified subject in approved secondary schools in Pennsylvania. The student must choose one academic field of specialization.

BACHELOR OF SCIENCE IN EDUCATION

1. General Requirements, see pages 31-33. 51 s.h.
2. Professional Education Requirements 30 s.h.
   —Secondary Education
   EDF 100*, EDP 250*, EDM 300*, EDP 351*, EDS 306*, EDS 411-412
   Teaching Skills/Methods*
3. Specialization for Secondary Teaching —See appropriate page for each field of specialization.
   Specialization in one of the teaching fields listed below is required for graduation in secondary education. The minimum semester hours which West Chester requires for each field will satisfy the teacher certification requirements in Pennsylvania. The minimum for each field of specialization noted in the particular B.S. in Education program given is under the heading of the department.

Secondary Areas of Certification

Biology	French	Physics
Chemistry	General Science	Russian
Communication	German	Social Studies
Earth and Space Science	Latin	Spanish
English	Mathematics	

Students in the secondary education program must confer regularly with their professional studies advisor in the

Department of Counselor, Secondary, and Professional Education, as well as with the academic advisor assigned by their respective academic department. The certification of all students whose goal is the Bachelor of Science in Education is the responsibility of the certification officer of the School of Education.

*The student must have at least a grade of "C" (G.P.A. of 2.0) in the asterisked courses in order to be admitted to EDS 411-412, Student Teaching. (Also see Student Teaching, pages 103-104.)

COURSE DESCRIPTIONS

COUNSELOR EDUCATION
Symbol: EDC

462 Essentials of the Helping Relationship (3) This course surveys the concepts and skills involved in helping others through individual interviewing, problem-solving, decision-making, and systematic behavior change.

498 Counselor Education Workshop (3)

499 Peer Helper Workshop (1-3) A workshop which focuses on acquisition of specific knowledge and skills necessary for working in a college setting.

FOUNDATIONS
Symbol: EDF

100 School and Society (3) An introduction to the nature, function, scope, organization, administration and support of the public school in American society. Offered every semester.

350 The Professional and Student Personnel Services (3) An introduction to non-adjunctive services in education. PREREQ: EDP 250.

360 The Learner in Non-School Settings (3) Emphasis in the course will be placed upon the intra- and interpersonal development, facilitative growth and adjustment, and disfunction as they may impact the non-school educator or trainer.

364 Systems-Based Educational Services (3) This course introduces the student to general systems (social) theory, focusing upon the elements, dynamics, and operations of a system that must be considered in developing educational activities and programs for that system. The student will learn strategies of systems analysis and intervention through the investigation of such topics as needs assessment, objective based programming, organizational development, and program evaluation.

412 Internship in Non-School Settings (3) The internship experience is designed for upper–level education students who are interested in using and transferring existing discipline and pedagogical skills within non-school settings. A regularly scheduled practicum will be held for all internships.

498 Workshop in Educational Foundations (3)

EDUCATIONAL PSYCHOLOGY
Symbol: EDP

249 Adolescent Development (3) This course focuses on the emotional, social, intellectual, moral, physical, and self-concept factors shaping human behavior with emphasis on adolescent behavior. Offered in fall and spring.

250 Educational Psychology (3) A study of learning in relation to the physical, social, emotional, and intellectual aspects of personality. Offered every semester.

351 Evaluation and Measurement (3) A survey of testing materials and procedures with emphasis upon interpretation and application of results for pupil guidance purposes. PREREQ: EDP 250. Offered every semester.

467 Group Dynamics (3) A group process course designed to help students, develop their personal effectiveness in group situations.

SECONDARY EDUCATION
Symbol: EDS

306 Principles of Teaching and Field Experience in Secondary Education (3) Methods and strategies of teaching in secondary schools will be the core of the course. Implications of classroom management and learning and other related problems will be discussed. Students will observe in a classroom for nine weeks. PREREQ: EDF 100. Offered every semester.

410 Independent Study (1-3) Special topics or projects initiated by the students which will enable them to do extensive and intensive study in an area of secondary education which will sharply increase their knowledge of secondary education. PREREQ: Permission of department chairperson.

411-412 Student Teaching (6, 6) Observation and participation in teaching and all other activities related to the teacher's work in the area of the student's specialization. PREREQ: 96 semester hours including all professional-education courses. Students must have at least a 2.5 cumulative average and at least a grade of "C" (2.0) in all secondary education and professional education courses. Offered every semester.

SECONDARY EDUCATION/SPECIAL EDUCATION
Symbol: EDX

306 Principles of Teaching and Field Experience in Special Education (3) Methods and strategies of teaching in public education Implications of classroom management and learning and other related problems will be discussed. Students will observe in a classroom for nine weeks. Offered every semester.

Environmental Education Program

John Holingjak, *Coordinator*

Certification Program

This interdisciplinary program enables teacher-education majors to secure certification to teach environmental education. The course sequences in the program are drawn from existing curricula in the natural sciences, social and behavioral sciences, and health and physical education, and permit students to graduate with dual certification. That is, their teaching certificates will be valid for environmental education as well as for their major area of study. For the additional certification in environmental education, students are required to complete four core courses and two elective courses chosen from one of the following areas of concentration: natural sciences, recreation-centered, man-centered, or curriculum-centered. Students wishing to explore this program should consult with the coordinator of environmental education.

CERTIFICATION PROGRAM

1. Required Core Courses 12 s.h.
   GEO 230, BIO 201*, BIO 172*, EDO 420
2. Electives—two courses from one of these areas: 6-8 s.h.
   Group A—Natural Sciences
   BIO 275, BIO 277, BIO 377, BIO 378, ESS 101, ESS 111, ESS 201, ESS 230
   Group B—Human-Centered
   GEO 232, ANT 102, ANT 310, ANT 346, GEO 214, SOC 200, SOC 342, GEO 212, GEO 210
   Group C—Recreation-Centered
   PED 250, PED 367, PED 370, PED 467
   Group D—Curriculum-Centered
   EDO 405, EDO 410, EDO 411, EDO 415, EDO 425

*Biology majors must substitute biology courses from Group A with approval of advisor.

COURSE DESCRIPTIONS
ENVIRONMENTAL EDUCATION
Symbol: EDO

405 Conservation Education Curriculum (K-12) (3) Conservation education as it exists in the present school curriculum and ways to integrate conservation into elementary and secondary school disciplines. Characteristics, interrelationships, and uses of our natural resources; problems and policies of industrial management in conservation as they are related to the school curriculum.

410 Methods in Conservation Education (3) Basic concepts and practices of conservation and outdoor education and their role in the school program.

411 Environmental Education Workshop (3) Each year the workshop is conducted at different geographic locations, such as Alaska and Colorado. A field-centered learning experience, the workshop includes camping trips, studies of flora and fauna, and field investigations. There is interaction with various governmental agencies as well as informal investigations of environmental problems.

415 History of Conservation (3) Development of the conservation movement in the U.S. with emphasis on the progressive adaptation of conservation to our changing social and economic order.

420 Organization and Administration of Outdoor Education (3) Basic concepts of outdoor education; the role of outdoor education in the school program, the initiation and administration of outdoor education.

425 Independent Studies in Environmental Education (3) Special research projects, reports, readings in conservation and outdoor education. Open to seniors only. PREREQ: Permission of instructor.

498 Workshop in Environmental Education (3)

Department of Instructional Media

Joseph M. Spiecker, *Chairperson*

PROFESSORS: Strayer, Spiecker

ASSOCIATE PROFESSOR: Redmond

ASSISTANT PROFESSORS: Reis, Rumfield

APPLIED MEDIA TECHNOLOGY PROGRAM IN INSTRUCTIONAL MEDIA

The Applied Media Technology Program, which results in an Associate of Science degree, is a two-year program consisting of an interrelated series of courses in photography, filmmaking, television, multi-image, sound recording, design, and graphic production of visual materials.

The student will develop a specific roster of skills which is employable in almost every segment of our society including education, business, government, medicine, law enforcement, and industry.

Students must meet general academic requirements of the University for admission and must satisfactorily complete 64 credit hours of required and elective courses.

ASSOCIATE OF SCIENCE—APPLIED MEDIA TECHNOLOGY

1. **General Requirements** 18 s.h.
   ENG 120, MAT 103, SPC 101, PSY 100 or PSY 265, CSC 101 or CSC 114 or CSC 141, fine arts requirement.
2. **Required Courses** 40 s.h.
   EDM 202, 213, 223, 225, 226, 228, 230, 231, 233, 234, 275, 290, SPC 202 or JRN 225.
3. **Electives** 6 s.h.

MINOR PROGRAM OF STUDY IN INSTRUCTIONAL MEDIA

Current trends have increased the need for trained personnel in the field of instructional technology. Students who are trained in this field have several career options including industry, in either the training and development center or the public relations department, and education, providing a service function in the instructional media department.

Students in the instructional media program will be required to develop a broad range of skills and knowledge in the use of media and technology. Associate students pursuing a B.A. in liberal studies may satisfy requirements with a minor or associate's degree in instructional media along with other requirements.

Students selecting a minor in instructional media must complete the following 18 credit hours of required courses: EDM 300 (with permission of department chair), 402, 423, 425, 430, 475 and 433. Interviews will be made upon request.

COURSE DESCRIPTIONS
INSTRUCTIONAL MEDIA
Symbol: EDM

200 Level courses for asssociate degree students only.

202 Selection and Effective Utilization of Media (3) This course will engage the student in a systems approach to the design of training packages, emphasizing the criteria for the selection of media to lead students effectively to the fulfillment of training objectives. It will also involve the most effective ways to utilize the media selection For associate degree students.

203 Mediated Programs (3) This course will explore the area of visual communication materials. Through the use of research materials, demonstrations, and various production techniques, the student will be able to design and produce visual instructional materials. The materials produced will be relevant to either the group or individualized instructional process reflected in current trends and methods of curriculum design.

213 Production of Multi-Image Programs (3) The multi-image presentation, perhaps more than any other means of communication, offers endless possibilities for creative expression. This course will attempt to acquaint the student with the how and why of multi-image presentations. The student, through hands-on experience, will research, design, and produce several programs which utilize the multi-image techniques. For associate degree students. PREREQ: Basic Photography.

223 Design and Production of Visual Materials (3) This course will explore the areas of design as they relate to the production of visual instructional materials to be utilized as an integral part of the curriculum. The phases of perception, communication, and learning theories are discussed, along with a hands-on experience, for determining advantages, limitations and the use of various visual media. For associate degree students.

225 Basic Photography (3) A workshop stressing the photographic process. The course will cover camera handling, film and print processing, and application of photography to media production and the development of training packages. For associate degree students. Student must supply adjustable 35 mm camera plus developing and printing materials.

226 Intermediate Photography (3) A workshop for those who have had a basic photography course or previous photographic experience. The course will stress a technical and creative approach to black and white and color photography with small format cameras and will involve advanced techniques of exposure, lighting composition, macro photography and film and print processing. For associate degree students. Student must supply adjustable 35 mm camera plus developing and printing materials. PREREQ: Basic Photography.

228 Advanced Photography (3) Course designed for students interested in learning professional techniques of black and white and color photography. General areas considered will be large and medium format cameras. Specific consideration will be camera equipment, lenses, filters, retouching, available light, and electronic

flash photography, composition and advanced darkroom techniques. For associate degree students. PREREQ: Basic and Intermediate Photography.

230 Motion Picture Production I (3) A workshop in scripting and shooting of 16mm film. For associate degree students.

231 Motion Picture Production II (3) Particular attention is paid to 16mm/video equipment, editing, sound recording, laboratory and processing procedure, color, and television application. For associate degree students.

233 Basic TV Production I (3) This course deals with the history and development of commercial and instructional television in the United States. It will include a study of closed circuit systems and the equipment and practices to operate such a system. The student will gain experience in planning and producing instructional or promotional television programs. For associate degree students.

234 TV Production II (3) A television studio production course emphasizing the practical work of all aspects of closed circuit television. It will include presentation of scripts, graphics, animation, photos, film, slides, sound recordings, lighting, staging and electronic technical information. For associate degree students.

235 Instructional TV Production III (3) A course designed for the advanced undergraduate student in television production. The ten–minute television productions are basic requirements of the course. The student will use the television production facilities of West Chester University to complete the basic TV production requirements. For associate degree students.

275 Sound Reproduction in Instructional Communication (3) A combination theory and workshop course that will teach the theory of sound and its application in instruction. For associate degree students.

290 Internship (4-15) Internship/Field Experience will give students an opportunity to gain practical experience in the field of media technology at their level. Areas where students might be placed are schools, colleges (two and four years), industry, TV stations, photo labs, etc.

300 Introduction to Instructional Communications (3) Techniques, materials and equipment, and the development of skills needed for teaching.

402 Selection and Effective Utilization of Instructional Media (3) This course will engage the student in a systems approach to course development emphasizing the criteria for the selection of media to lead students effectively to the fulfillment of course objectives. It will also involve the most effective ways to utilize the media selected.

403 Developing Mediated Individualized Instructional Programs (3) Involves the development by students of individualized instructional packages utilizing various forms of media. The packages will be developed using a systems approach and emphasis will be on interactive video and computer assisted instruction.

405 Theory of Motion Picture Production (3) Lecture integrated with extensive use of films to teach the basic functions of the educational film and attempt to cite results to demonstrate the effective use of films.

413 Production of Multi-Image Production (3) The multi-image presentation, perhaps more than any other means of communication, offers endless possibilities for creative expression. This course will attempt to acquaint the student with the how and why of multi-image presentations. The student, through hands-on experiences, will research, design and produce several programs which utilize the multi-image techniques. PREREQ: Basic Photography.

423 Design and Production of Visual Materials (3) This course will explore the areas of design as they relate to the production of visual instructional materials to be utilized as an integral part of the curriculum. The phases of perception, communication and learning theories are discussed, along with hands-on experience, for determining advantages, limitations and the use of various media.

425 Basic Photography (3) A workshop stressing photographic processing, camera handling and the film and print processing. Students must have complex camera and must purchase personal supplies.

426 Intermediate Photography (3) A course designed for students who have had the basic photography course and wish to sharpen previously learned skills and acquire more advanced skills in picture taking, film and print processing and print finishing. PREREQ: Basic Photography.

428 Advanced Photography (3) Course designed for students interested in learning professional techniques regarding black and white and color photography. General areas considered will be large, medium and 35mm format camera. Specific consideration will be camera equipment, lenses, filters, retouching, available light and electronic flash, composition, and advanced darkroom techniques. PREREQ: Basic and Intermediate Photography.

430 Motion Picture Production I (3) Scripting and shooting of 16mm film including magnetic sound recording and reproduction.

431 Motion Picture Production II (3) Course geared for the advanced filmmaker/video producer interested in learning the professional techniques for producing 16mm/video production.

433 Basic TV Production I (3) This course deals with the history and development of commercial and instructional television in the United States. It will include a study of closed circuit systems and the equipment and practices to operate such systems. The student will gain experience in planning and producing instructional or promotional television programs.

434 Instructional TV Production II (3) A lecture, demonstration and workshop course designed for the classroom teacher. The course stresses the planning, writing, producing and evaluation of instructional television. Emphasis is placed on student involvement in the television production process.

435 Instructional TV Production III (3) This is a course designed for the advanced undergraduate student in television production. The course will allow students to produce three, 15-minute television productions on topics of their own choice. The student will assume the role of a TV director and producer and will accept independent responsibility for the TV productions.

463 Field Study of Media Programs (3) A scheduled group or individual tour, foreign or domestic, in which students investigate notable installations or projects in educational media.

475 Sound Reproduction in Instructional Communications (3) A combination theory and workshop course that will teach the theory of sound and its application in instruction.

498 Workshop in Instructional Media (3 or 6)

Social Studies Program

David S. Eldredge and John J. Turner, *Coordinators*

BACHELOR OF SCIENCE IN EDUCATION— COMPREHENSIVE SOCIAL STUDIES

The Commonwealth of Pennsylvania grants a comprehensive social studies certificate entitling the holder to teach any of the social studies in public school. Preparation combines an introduction to all of the social science disciplines with either a concentration in one discipline, or an interdisciplinary concentration (a 2.5 cumulative grade point average is required in social science courses). For information, and specific course requirements, contact the chairpersons of the departments participating in this program, or Mr. Eldredge, Political Science Department, or Dr. Turner, History Department.

COMMON REQUIREMENTS

1. General Requirements, see pages 31-33 51 s.h.
2. Professional Education, see page 98. 30 s.h.
3. Social Science Requirements: HIS 101, 102, 151 and 152; ANT 102; ECO 101 or 131 and 132; GEO 101; PSC 100; PSY 100; SOC 200; plus 6-9 s.h. and a concentration.

A 2.5 cumulative average in the social sciences and a 2.25 overall average is a prerequisite for student teaching.

A. Concentration in a Social Science Discipline
Twenty-one (21) s.h. in the discipline of student's choice: anthropology, economics, geography, history, philosophy, political science, psychology or sociology. See department of concentration for advising.

B. Concentration in American Culture. See History Department for advising.

American Studies Core	24 s.h.
American Studies Electives and Social Science	9 s.h.
Requirements	9 s.h.

C. Concentration in World Cultures. Consult with any of the following departments for advising: Anthropology and Sociology, Political Science, or History.

Seminar	3 s.h.
European Tradition	9 s.h.
Non-European Tradition	9 s.h.
Topical and Thematic Approaches	9 s.h.

D. Concentration in Ethnic Studies, advised by Department of History

History Courses	15 s.h.
Social Science Electives and Requirements	9 s.h.
Humanities Electives	6 s.h.
Teaching in Urban Schools (EDU 361)	3 s.h.

COURSE DESCRIPTIONS
COMPREHENSIVE SOCIAL STUDIES

SSC 331 Teaching Social Studies in Secondary Schools (3) Methods and materials of teaching social studies for prospective secondary school teachers. Emphasis is on combining educational theory with social studies content for effective teaching. Exercises and practical application. Normally taken the semester immediately prior to EDS 411/412.

Department of Special Education

Deborah A. Nickles, *Chairperson*

PROFESSOR: Freeman

ASSOCIATE PROFESSOR: Zlotowski

ASSISTANT PROFESSORS: Finkel, LaCoste, Nickles

Degree Program to Teach the Mentally and/or Physically Handicapped

The object of the program in special education is to provide relevant and comprehensive training for those seeking certification in the teaching of the mentally and physically handicapped.

The special education curriculum is designed to produce a teacher who is clinically oriented with a foundation in normal growth and development and educational practices. The person will have been exposed to children between the ages of 3 and 21 with mental and physical handicapping conditions ranging from mild to severe but is not necessarily equally proficient in all areas. Personal characteristics essential for adequate preparation and performance will include a minimal level of flexibility, receptivity, intellectual ability, physical stamina, and a focus on professional and realistic expectations.

BACHELOR OF SCIENCE IN EDUCATION— SPECIAL EDUCATION

1. General Requirements, see pages 31-33 51 s.h.
   Introduction to Psychology is required. Electives selected under advisement (See Handbook)
2. Professional Education 27 s.h.
   Required: EDF 100, EDP 250, EDM 300, EDP 351, Student Teaching.
*3. Special Education 27 s.h.
   Required: EDA 101, EDA 102, EDA 220, EDA 301, EDA 302, EDA 349, EDA 350, EDA 360, EDA 403
*4. Required Supporting Courses 18 s.h.
   PED 252, HEA 206, EDE 315, EDR 323, SPP 340, MAT 357

Minor Program of Study: Developmental Disabilities

Current trends, enforced by recent litigation, have increased the need for a general understanding of the handicapped individual in our culture.

The program is designed to introduce students to exceptionalities through course work and field practicums. A life programming approach is used.

MINOR: DEVELOPMENTAL DISABILITIES

1. Developmental Disabilities 15 s.h.
   Required: EDA 241, 220, 301 or EDA 302, 350, 403
2. Free Elective 3 s.h.
   Selected with approval of special education advisor

This minor may be taken as a concentration by students in the Associate of Arts in liberal studies program or as one of the minors in the Bachelor of Arts or Bachelor of Science in liberal studies general degree program. The minor does not lead to Level II teacher certification.

*Minimum grade of C− required in these courses.

COURSE DESCRIPTIONS
SPECIAL EDUCATION
Symbol: EDA

100 Mainstreaming for Exceptional Students (1) This course is designed to acquaint the classroom teacher with the prospective exceptional students who may be spending some portion of the day in the regular setting. Current regulations covering those placements will be reviewed. Emphasis will be placed on adequately meeting special educational needs.

101 Psychology of the Mentally Handicapped (3) An introduction to the range of exceptional children from an historical perspective with an in-depth study of mental retardation and emotional disturbance. PREREQ: PSY 100.

102 Psychology of the Physically Handicapped (3) An in-depth study of the physically handicapped and the learning disabled/brain damaged with an overview of psychological and societal implications and multi-handicapping conditions. PREREQ: PSY 100.

220 Behavior Management (3) An exploration of current practices in management of behavior with emphasis on teacher delivered systems. PREREQ: EDA 101 or 102. Offered fall only.

241 Psychology of Exceptional Children (3) Psychology of children who are mentally gifted or retarded or who have vision, hearing, speech, or orthopedic handicaps or emotional or social problems. PREREQ: PSY 100.

245 Introduction to Learning Disabilities (3) Identification, education, and treatment of the child labeled as "learning disabled." Emphasis given to the specific learning and emotional needs such a child presents An overview of the historical development and current status of this field is included.

280 Integrating the Arts (3) Fine art, music, puppetry, and dance are combined as creative processes to be adapted for use with children.

301 Field Experience and Seminar: Mentally Handicapped (3) A weekly three–hour practicum and one and one half-hour seminar devoted to field experience with mentally handicapped students and class analysis of observed needs and methods of teacher responses. PREREQ: EDA 101.

302 Field Experience and Seminar: Physically Handicapped (3) A weekly three–hour practicum

and one and one-half hour hour seminar devoted to field experience with physically handicapped students and class analysis of observed needs and adjustment factors. PREREQ: EDA 102.

330 The Academically Superior Child (3) The gifted child and means of providing an effective educational program for him or her.

349 Programmed Environments (3) An overview of curriculum preparation including the study of methods, materials, equipment and areas uniquely designed to meet the needs of handicapped learners.

350 Life Curriculum and Methods: Handicapped Learners (3) Preparation to assist handicapped students to achieve adaptive levels of behavior through the view of total life preparation. PREREQ: EDA 349.

360 Diagnostic and Prescriptive Teaching (3) An introduction to diagnostic procedures and the conversion of these findings into relevant educational plans and instructional strategies. PREREQ: EDA 350.

403 Senior Seminar: Current Trends (3) Exploration of emerging concepts, problems, and trends in a seminar format with emphasis on individual preparation. PREREQ: EDA 360.

410 Independent Study (1-3) Special topics or projects initiated by the student that will enable her/him to do extensive and intensive study in an area of special education which will sharply increase her/his knowledge of special education. PREREQ: Permission of chairperson.

416 Student Teaching and Direction of Activities, Including Practicum: Emotionally Disturbed (6) Participation in teaching and all other activities within the student teaching role related to the teacher's work. PREREQ: 96 semester hours including all professional education courses and all specialized preparation courses with standards as shown above (*).

417 Student Teaching and Direction of Activities, Including Practicum: Learning Disabled (6) See EDA 416 for description and requirements.

418 Student Teaching and Direction of Activities, Including Practicum: Mentally Retarded (6) See EDA 416 for description and requirements.

419 Student Teaching and Direction of Activities, Including Practicum: Physically Handicapped (6) See EDA 416 for description and requirements.

443 Psychology of the Mentally Retarded (3) Etiology, diagnosis, and various treatment approaches to the mentally retarded. PREREQ: EDA 241.

Teaching Certification Programs

West Chester University offers 22 undergraduate certification programs and two endorsement areas for students who wish to prepare themselves to be certified teachers. These programs, which are described more fully in the departmental listings, include:

Department	Program and Degree
Anthropology-Sociology	BSED: Social Studies—Anthropology
	Social Studies—Sociology
Biology	BSED: Biology
Chemistry	BSED: Chemistry
Childhood Studies and Reading	BSED: Elementary Education
	Early Childhood Education
Communicative Disorders	BSED: Speech Correction
Counselor, Secondary Education and Professional Education	Endorsement Certification: Environmental Education
English	BSED: English
Foreign Languages	BSED: French
	German
	Latin
	Russian
	Spanish
Geology and Astronomy	BSED: Earth-Space Science
Government and Planning	BSED: Social Studies—
	Geography
	Political Science
Health	BS: Health Education
	BS: Dental Hygiene
History	BSED: Social Studies—
	History
	American Cultures
	Ethnic Studies
	Human Heritages
	World Cultures
Mathematical Sciences	BSED: Mathematics
Music Education	BS: Music Education: Vocal, Choral, General, Instrumental
Philosophy	BSED: Social Studies—
	Philosophy
Physical Education	BS: Health and Physical Education
	Endorsement Certification: Driver Education
Physics:	BSED: Physics
Psychology	BSED: Social Studies—
	Psychology
Special Education	BSED: Special Education
Speech Communications and Theatre	BSED: Communications

ADMISSION TO TEACHER EDUCATION

All candidates for teacher certification must meet the teacher education requirements as well as satisfy the requirements of their respective departments. The following teacher education requirements must be satisfied prior to student teaching:

1. Maintain a cumulative G.P.A. of 2.5
2. Maintain an overall G.P.A. of 2.25 for the following required courses: EDF 100, EDP 250, ENG 120 (if required), ENG 121, 3 credits of MAT 103 (or course required by major department), PSY 100
3. Demonstrate writing competency by successfully completing ENG 121
4. Completion of a speech screening test and hearing screening test
5. Successfully pass a reading screening test
6. Demonstrate computer literacy competencies by:
   a. Successfully completing a computer literacy course (may be part of general education science distribution requirement) or
   b. Passing a computer literacy test administered by the Mathematical Sciences Department;
7. Provide evidence of 30 clock hours of field experiences by maintaining a portfolio on file in the student's major department. Such evidence must meet the standards of the specific certification program.

STUDENT TEACHING

Student teaching is to be taken in the seventh or eighth semester and normally culminates the professional experience in pre-service preparation for teaching. Students are required to file applications for student teaching with their individual departments. Since each department's regulations differ, students are urged to check with departments so the proper procedure may be followed.

Students must do their teaching in stations in school areas where the University holds a contract for student teachers. To be eligible for student teaching, candidates must have senior standing (96 semester hours) and a cumulative index of 2.5 or higher and should have completed all course work required in at least the first six semesters and satisfied the requirements for full admission to teacher education. Criteria for student teaching approval occasionally change. Students should contact departments for requirements. A student receiving a C, D or lower grade in student teaching will be denied certification.

TEACHING CERTIFICATES

It is the student's responsibility to apply for a Pennsylvania Certificate through the institution's certification office. It is recommended that students apply as soon as requirements have been met.

Applicants for certification must meet the requirements in effect at the time of application.

Applicants for the certificate generally must be citizens of the United States. A non-citizen must have an immigrant visa and have declared the intent to become a citizen of the United States.

Application forms and information about certification are available from the Certification Office in the School of Education.

NATIONAL TEACHER EXAMINATION

Applicants for an initial Pennsylvania Instructional Level I Certificate must pass the National Teachers Examination in the following areas: basic skills including writing, reading, and mathematics; general knowledge, including social sciences, literature and fine arts, and science; professional knowledge; and major subject specialization area. Students should take the basic skills and general education tests at the end of the sophomore year or whenever the University's General Education Requirements have been completed. The professional knowledge and major specialization area tests should be taken near the end of the senior year after all requirements have been completed. West Chester University has been designated as a test center. Tests will be administered four times a year.

INSTRUCTIONAL I CERTIFICATE

A student who completes one of the University's teacher education curricula receives his or her degree from the University and may qualify for an Instructional I Certificate, which is issued by the Pennsylvania Department of Education. This certificate is valid for six years of teaching in Pennsylvania. Recommendation for the certificate is made by the certifying officer of the University.

INSTRUCTIONAL II CERTIFICATE

This certificate requires three years of successful teaching in Pennsylvania under the Instructional I Certificate, successful completion of a PDE approved Induction Plan, and the satisfactory completion of 24 semester hours of additional work completed at a baccalaureate granting institution, after issuance of the baccalaureate degree. This certificate is a permanent license to teach in Pennsylvania.

All or part of the educational requirements for this credential may be obtained through approved in-service programs.

Additional subject areas may be obtained by completing requirements for that area. Consult the department in which you seek certification for information and an evaluation of your credits.

Post-baccalaureate students who wish to obtain teaching certification should consult with the School of Education.

School of Health Sciences

D. Allan Waterfield, *Dean*

Department of Communicative Disorders

John L. Eberhart, *Chairperson*

PROFESSOR: Weiss

ASSOCIATE PROFESSORS: Aungst, Maxwell, Stigora, Stratton

ASSISTANT PROFESSORS: Eberhart, Stuart

The Department of Communicative Disorders offers two programs leading to the bachelor's degree.

1. The B.A. in COMMUNICATIVE DISORDERS is a pre-professional program which provides students with basic knowledge of human communication and communication disorders in preparation for graduate study in audiology, speech-language pathology, speech and hearing science or related health science or communication fields.
2. The B.S. in EDUCATION in SPEECH CORRECTION provides students with basic knowledge of human communication and communication disorders which qualifies them for the Pennsylvania Instructional I Certificate while preparing them for pursuit of graduate study.

THE B.S. WILL NOT BE AWARDED AFTER DECEMBER, 1993. LEVEL I CERTIFICATION WILL BE OFFERED AS AN OPTION IN THE M.A. IN SPEECH PATHOLOGY PROGRAM.

Both degree programs provide the student with the opportunity to complete much of the undergraduate preparation which is applicable to fulfilling the requirements for the Certificate of Clinical Competence (CCC) from the American Speech-Language-Hearing Association (ASHA).

The department operates a Speech and Hearing Clinic which serves as a teaching-training facility for the academic program. The clinic provides diagnostic and therapeutic services for children and adults with speech and hearing problems. These services are available to individuals from the University as well as from the surrounding communities.

BACHELOR OF ARTS—COMMUNICATIVE DISORDERS

1. General Requirements, see pages 31-33.	51 s.h.
2. Foreign Language and Culture	9-15 s.h.
3. Related Areas These courses are to be selected under advisement from a department-approved list.	24 s.h.
4. Communicative Disorders Concentration SPP 101, 106, 107, 203, 223, 236, 343, 350, 351 (plus six credits of major electives)	33 s.h.
5. Electives	6-21 s.h.

BACHELOR OF SCIENCE IN EDUCATION—SPEECH CORRECTION

Each student must complete the following requirements:

1. General Requirements, see pages 31-33.	51 s.h.
2. Cognate Courses and Electives These courses are to be selected under advisement from a department-approved list.	6 s.h.
3. Professional Education EDA 241, EDF 100, EDP 250, PSY 375, PSY 325, SPP 411-412, 470	30 s.h.
4. Specialized Preparation PHY 110, SPP 101, 106, 107, 203, 223, 236, 323, 343, 346, 350, 351, 352, 471	42 s.h.
5. Teacher Education Requirements.	

COURSE DESCRIPTIONS
COMMUNICATIVE DISORDERS

Symbol: SPP

101 Introduction to Communicative Disorders (3) An introductory survey of normal processes and disorders of speech, language, and hearing. Suitable for non-majors.

106 (also SPC 106) Introduction to Phonetics (3) Study of the sounds of the English language. Development of skill in their recognition, production, and transcription. PREREQ: SPP 101 or permission of instructor.

107 Speech and Language Development (3) Theoretical origin of speech in mankind and the development of language and speech in the individual. Normal development of speech and language is stressed. PREREQ: SPP 101 or permission of instructor.

203 Anatomy of Speech and Hearing Mechanisms (3) A study of embryology, normal development, neurology, and physiology of anatomical structures of the speech and hearing mechanisms.

223 Voice and Articulation Disorders (3) The symptomatology, etiology, diagnosis, and treatment of communication disorders associated with articulation and voice. PREREQ: SPP 101 and 106.

236 Language Disorders (3) The symptomatology, etiology, diagnosis, and treatment of language disorders in children and adults including the mentally retarded, emotionally disturbed, neurologically impaired, and hearing impaired. PREREQ: SPP 107, 223.

323 Neuromuscular Disorders and Stuttering (3) The symptomatology, etiology, diagnosis and treatment of communication disorders associated with stuttering and neuromuscular disorders. PREREQ: SPP 223 or consent of instructor.

340 Development and Disorders of Language (3) An examination of normal language development and its psycholinguistic, neurological, and social dimensions. Special education considerations for children with language disorders. PREREQ: EDA 101 or 102 is required, SPP 101 is recommended.

343 Introduction to Audiology (3) An introduction to audiology and its relationship to other medical and educational fields concerned with hearing impairments. Developmental, medical, social, physical, and psychological properties of hearing and sound are explored. Evaluative techniques are introduced with opportunity for limited practical experience.

346 Aural Rehabilitation (3) Medical, prosthetic, and educational approaches to aural rehabilitation for children and adults are considered. A comparative analysis of prevailing theories and techniques is made. A combined approach is stressed. PREREQ: SPP 343.

347 Audiometry (3) A lecture-laboratory course which explores the measurement of hearing. Opportunities to develop competencies in administering basic measures are provided during lab periods. PREREQ: SPP 343.

350 Clinical Principles in Speech and Hearing (3) A study of evaluative and therapeutic materials and methods applicable to the professional setting. PREREQ: SPP 106, 223.

351 Clinical Practicum (3) Supervised practice in the Speech and Hearing Clinic. Designed to prepare the student to evaluate and provide therapy for children and adults who have communication problems. Must be repeated if performance is not satisfactory. PREREQ. Permission of instructor, and 2.50 average in major (SPP) courses (100-level, 200-level and SPP 350).

◆352 Advanced Clinical Practicum (3) PREREQ: SPP 351 and permission of instructor.

◆This course may be taken again for credit.

◆410 **Independent Study (1-3)** Research, creative projects, reports, and readings in speech pathology and audiology. Application must be made to advisers by students one semester in advance of registration. Open to juniors and seniors only. PREREQ: Approval of department chairperson. Offered upon demand.

411-412 **Therapy in the Public Schools (6, 6)** Observation and participation in teaching and activities related to the performance of a clinician's work in the area of speech pathology and audiology. PREREQ: Satisfactory completion of all required speech, hearing, and psychology courses through the sixth semester and senior standing. Students must have at least a 2.5 cumulative average and 2.5 average in the major field.

469 **Equipment Workshop (3)** Evaluation, selection, use and maintenance of electronic aids for the speech and hearing clinician. Emphasis upon demonstrations and practical experience. Open to speech pathology and audiology students with senior standing. Also offered as SPP 569 for graduate credit.

470 **School Language, Speech, and Hearing Programs (3)** Orientation to and observation of the organization, administration, and operation of school speech and/or hearing programs (K–12). For speech pathology majors with consent of instructor.

471 **Inter-Professional Seminar in Speech and Hearing (3)** Explores the interrelationship between the speech or hearing pathologist and members of allied professions. The course format will include having guest speakers as well as observing specialists in their employment setting. PREREQ. Permission of instructor.

◆498 **Workshop in Communicative Disorders (3)**

◆This course may be taken again for credit.

Department of Health

Betty C. Boyle, *Chairperson*

PROFESSORS: Lemcke, Nowack, Nye, Young

ASSOCIATE PROFESSORS: Fisher, Goetz, Harris, McConatha, Mustalish, Sheehan, Voss

ASSISTANT PROFESSORS: Boyle, Cinelli, Sankaran, Shorten

ADJUNCT PROFESSORS: Albright, Clarke, Robbins

The Department of Health offers four programs leading to a Bachelor of Science degree and also offers an Associate of Science degree in respiratory therapy.

1. The B.S. in HEALTH EDUCATION prepares an individual to teach in schools K through 12th grade. Upon completion of 129 credits, the students take the mandated examination to certify teachers in Pennsylvania. Students passing the exam will receive an Instructional Level I Certificate to teach health education.
2. The B.S. in PUBLIC HEALTH is designed to provide students with the competencies needed for a career in public health. Students selecting this program will take a public health core of courses and select one of the concentrations from the following:
   a. PUBLIC HEALTH: HEALTH PROMOTION—Prepares students for a career as a public health practitioner in hospitals, health departments, health agencies and industry. The program provides a comprehensive basic science background as well as a strong public health foundation.
   b. PUBLIC HEALTH: ENVIRONMENTAL HEALTH—prepares students for careers as environmental health scientists in industry, consulting firms, government and academia. The program synthesizes a rigorous general scientific preparation with specialized applied courses in a wide range of environmental health science disciplines.
   c. PUBLIC HEALTH: NUTRITION—prepares students for careers in nutrition, working in schools, industry and hospitals.
3. The B.S. in HEALTH SCIENCE is for students who have completed a certificate or associate's degree program in such health science areas as dental hygiene, respiratory therapy, occupational therapy, medical technology and cardiovascular technology. The program gives professionals the chance to build on their technical education already received and to develop academic competency in a related field.
4. The A.S. in RESPIRATORY CARE is offered in association with Bryn Mawr Hospital. Graduation from the program satisfies the entrance requirement for the Written Registry Examination and the Clinical Simulation Examination given by the National Board for Respiratory Care. Successful completion of these examinations qualifies the candidate as a registered respiratory therapist. Most R.T.'s are employed by hospitals and home health care agencies.

ACADEMIC POLICIES

1. Repeating Courses.
   Health Department majors who earn less than a C (2.0) in selected program requirements may be required to repeat such courses. Contact your advisor regarding these requirements.
2. Overall Grade Point Averages for Student Teaching, Internships, and Field Experiences.
   A. A minimum 2.5 cumulative grade point average is required of all school health education majors for student teaching assignments.
   B. A minimum 2.3 cumulative grade point average is required of all public health (health promotion, environmental health, nutrition) majors for internship or field experience assignments.

   For students not meeting these requirements, supplementary course work will be advised.

REQUIREMENTS COMMON TO THE B.S. PROGRAMS

General Education Requirements — 51 s.h.
The required courses with asterisks (*) also satisfy the General Education Requirements.

BACHELOR OF SCIENCE—HEALTH EDUCATION

1. Health Education Core — 46 s.h.
   HEA 100, 103, 204, 206, 242, 303, 304, 306, 308, 330, 404, 405, 410, 440.
2. Professional Education Requirements — 21 s.h.
   EDF 100, EDP 250, EDA 241, EDP 351, EDM 300, EDE 352, EDE 406.
3. Cognate Requirements — 11 s.h.
   SPC 101, BIO 100*, 259, 269, CHE 102*, CSC 101*, PSY 100*, PHI 180*, SOC 200*

BACHELOR OF SCIENCE—PUBLIC HEALTH

1. Required of all public health students — 27 s.h.
   HEA 341, CHE 103*, 104*, CRL 103*, 104*, BIO 110*, CSC 101, MAT 121, BIO 204.
2. All public health students are required to complete one of the three concentrations:

A. **Public Health—Health Promotion**
   1. Required: HEA 100, 103, 204, 241, 242, 303, 306, 330, 342, 350, 410, 420, 421. — 39 s.h.
   2. Cognate Requirements: BIO 259, 269, SWO 200. — 11 s.h.
   3. Electives—Selected under advisement — 4 s.h.

B. **Public Health—Environmental Health**
   1. Required: HEA 350, 451, 455, 456 or 457. — 21 s.h.
   2. Elective Environment Health Track — 14 s.h.
      Select from one of the following
      a. Environmental Quality/Public Sector:

HEA 360, 363, 364, 435, 461, 462, 463.
b. Environmental Quality/Occupational Sector: HEA 435, 452, 453, 459, 460.
c. General/Any combination of the above courses taken under advisement.

3. Cognate Requirements 28-29 s.h.
CHE 231-232, CRL 232, BIO 370, MAT 161, PHY 130-140, ESS 101, ESL 101

C. Public Health—Nutrition
1. Required: HEA 241, 242, 303, 306, 311, 342, 411, 412, 413, 414, 420, 421. 33 s.h.
2. Cognate Requirements: CHE 230, 404, ECO 111, 112*, MGT 301, SOC 200*, PSY 100*, BIO 259, 269. 28 s.h.
3. Other courses selected under advisement to meet a total of 128 semester hours.

BACHELOR OF SCIENCE—HEALTH SCIENCE

1. Satisfactory completion of an allied health certificate, diploma, or A.S. degree program.
2. Satisfactory completion of 128 semester hours, including
a) 51 s.h. of general education
b) Complete a minimum of six coordinated courses or 18 s.h. approved by an advisor. Suggested concentrations include: community health, respiratory care, dental hygiene, neonatal/pediatric health, or health management.

ASSOCIATE OF SCIENCE—RESPIRATORY CARE

1. General Requirements 19 s.h.
ENG 120, MAT 105, PHI 180, PSY 100, SPC 101, and the Arts.
2. Respiratory Care Requirements 44 s.h.
HEA 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266.
3. Cognate Requirements 15 s.h.
BIO 204, 259, 269, CHE 204.

MINOR IN HEALTH SCIENCES

Required course HEA 100 and 15 hours of other health courses selected under advisement.

COURSE DESCRIPTIONS

HEALTH

Symbol: HEA

100 Dimensions of Wellness (3) Fundamental concepts of health and wellness exploring several health-related areas with an opportunity for personal lifestyle change conducive to better health.

#102 Humans and the Environment (3) A study of the ability of humans to survive and maintain their life quality considering the limited resources and recycling capacity of planet Earth.

103 Addictives (3) Thorough study of all addictives in relation to the individual and society.

104 Human Sexuality (3) Study of sexuality as it relates to self; the interrelationships with persons.

105 Consumer Issues (3) Study of consumer issues today that relate to the field of health.

106 Contemporary Issues in Living and Dying (3) Current controversial issues including death and dying. How involved persons cope with death.

107 Parenthood Education (3) Examining the role of the parent; improvement of parent-child relationships.

109 Health Issues of Women (3) The needs and concerns of women as consumers in our present health care system. Various biological, psychological, and social topics will be discussed.

110 Transcultural Health: Principles and Practices (3) This course examines the health beliefs and practices of a variety of subcultural groups in the U.S. Emphasis is placed on the application of multicultural health beliefs to the caring process. It utilizes the cross-cultural approach in meeting the health needs of clients and families. It is open to all college students, regardless of major, as a free elective.

201 Health Education I (3) Fundamental knowledge of major health content.

202 Health Education II (3) Fundamental knowledge of major health content.

204 First Aid for Health Professionals (3) Prepares students entering the professional field of health to meet emergencies requiring first-aid procedures.

206 Human Development (3) A lifespan approach to the study of human development in the physical, cognitive and psychosocial domains.

211 First Aid for Children (1) Safety and CPR for early childhood or elementary education majors.

241 Introduction to Public Health (3) A study of the components, functions, and interrelationships that are parts of any program and/or organization in public health.

242 Community Health (3) Community health problems and services considered on the local, national, and international levels. Includes practical experience. PREREQ: HEA 241.

249 Respiratory Therapy Equipment (3) Study of the equipment utilized in the delivery of respiratory care.

250 Bronchopulmonary Hygiene (3) An in-depth study of respiratory care modalities utilized in the maintenance of bronchopulmonary hygiene including humidity and aerosol therapy, sustained maximal inspiration, IPPB therapy, chest physical therapy and airway maintenance.

251 Oxygen Therapy (2) An overview of basic science relevant to respiratory therapy is followed by the study of the manufacture, storage, and transport of medical gases, regulators, and metering devices, oxygen therapy, and oxygen analysis.

252 Medical Terminology (1) An introduction to medical terminology using a programmed instruction, self-learning technique. Includes chart format, word parts, and pulmonary terminology abbreviations, and an overview of respiratory anatomy.

253 Aspects of Respiratory Therapy I (2) A discussion of topics essential to the provision of comprehensive respiratory therapy. Topics include patient care, CPR, and psychosocial issues.

254 Clinical Practice I (2) An introduction to clinical respiratory care consisting of rotations through patient care areas followed by discussion of experiences and correlation to didactic work.

255 Pulmonary Function Evaluation (2) A comprehensive study of various pulmonary function evaluation techniques. Includes bronchoscopy and arterial blood gas analysis.

256 Mechanical Ventilation (3) A comprehensive study of mechanical ventilation including the physiology of positive pressure breathing, techniques of ventilation, characteristics of commonly used ventilators, and monitoring of the ventilator-patient system.

257 Respiratory Physiology (2) An in-depth study of breathing mechanics, pulmonary circulation, ventilation/perfusion ratios, regulation of ventilation, and gas transport.

258 Aspects of Respiratory Therapy II (2) A continuation of HEA 253. Topics include rehabilitation, home care, adminstration/organization, respiratory pharmacology and infection control techniques.

259 Clinical Practice II (4) An intensive exposure to non-critical patient care areas. Performance evaluation of basic therapies to include humidity, and aerosol, oxygen therapy, chest inflation techniques, chest physical therapy and suctioning.

260 Cardiopulmonary Diseases (2) A comprehensive study of cardiopulmonary diseases and treatment. Includes pulmonary diagnostic procedures.

261 Respiratory Therapy Seminar I (2) Includes critical written analysis and discussion of pertinent respiratory care literature as well as elements of research pertinent to the respiratory care profession. The students culminate their study of respiratory care by designing and implementing a mini-research project.

262 Clinical Practice III (2) An introduction to critical and specialized respiratory care areas followed by discussions and correlation to didactic work.

263 Cardiopulmonary Evaluation (3) An in-depth study of monitoring and evaluation techniques including modules on cardiopulmonary physiology, electrocardiographic monitoring, and hemodynamic monitoring. Interpretation and application data is emphasized. Appropriate lab experience is included.

264 Clinical Practice IV (5) An intensive exposure to critical care and specialized areas of respiratory care. Performance evaluation of therapies and procedures to include mechanical

#Approved interdisciplinary course

ventilator set-up and evaluation, neonatal ventilator set-up, pulmonary function assessment, arterial line set-up and arterial line blood withdrawal.

265 Pediatric/Neonatal Respiratory Care (2) A comprehensive study of neonatal and pediatric respiratory care including fetal lung development, pathophysiology of the neonate and pediatric patient and related respiratory care procedures.

266 Pharmacology (2) An in-depth study of various drug categories including drug-dose response and principles of absorption, distribution, metabolism, and excretion

301 Health for the Elementary Grades (3) Principles and procedures for meeting the health needs of the child.

303 Introductory Principles of Human Nutrition (3) Practical approach to the role nutrition and dietetics play in improving the quality of our lives, socially, physically, mentally, and emotionally. Dispelling of fads and fallacies.

304 Family Life and Sex Education (3) Basic concepts and objectives of such a program for students at different age levels. Organizing, launching, and evaluating the program.

306 Preparation for Classroom Teaching (3) A comprehensive study of the materials available in health education and the techniques for their implementation.

♦308 Field Experience in Health Education (1) Opportunities for observation/experience in health science settings.

310 Love and Marriage (3) Defines love and marriage for the student and teaches the skills essential to fulfilling those needs.

311 Applied Nutrition (3) A study of methods of nutritional assessment, community aspects of nutrition, nutrition and the lifecycle and concepts of meal planning. PREREQ: HEA 303.

312 Food Science (4) A study of the chemical, physical and biological effects of processing, storage and preservation on the structure, composition, palatability and nutritive value of food. (Includes a lab.)

313 Food Service Systems Management (4) A study of the organization and administration of food service systems and the functions and responsibilities specific to this management. Personnel, food cost, accounting, production and service facility planning and environmental design will be examined. Quantity food production will also be studied.

320 Positive Aspects of Aging (3) To describe past, present and projected information concerning the aging process in normal human development.

325 Stress Management (3) Comprehensive survey of stress concepts, theories and management techniques. Emphasis is placed on personal application.

330 Health Behavior (3) Individual and group health behavior of children and adults at different levels of wellness and in various settings. Past and current theories of health behavior with methods of application by health professionals will be included. PREREQ. HEA 100, 241, 242.

331 Health Promotion in the Workplace (3) A study of current health promotion efforts and programs for employees and management personnel at the worksite.

341 Chronic and Communicable Diseases (3) A study of the disease process including causes, effects, and control of selected diseases with an emphasis on disease prevention and health promotion. PREREQ. HEA 241, 242.

342 Program Planning and Evaluation (3) Provides an in-depth study of the program planning process and evaluation methods. Needed skills are developed and experience given in writing programs from assessment through evaluation with both hypothetical and real populations. PREREQ: HEA 341.

350 Environmental Health (3) Methods of promoting health by controlling environmental factors relating to air, water, wastes, housing, radiation, and industrial hygiene. PREREQ: CHE 104, BIO 110; permission of instructor.

360 Air Quality and Health (4) A consideration of the types and amounts of air contaminants, the atmospheric processes that transport them; and the role of air quality in human health. PREREQ: HEA 350, or permission of instructor.

363 Waste Management (2) Sources, characteristics, and amounts of solid and hazardous wastes, and their implications for human health; methods of collection, handling, and disposal, recycling. PREREQ HEA 350, or permission of instructor.

364 Food Sanitation (2) Basic principles of food hygiene; health problems associated with production, processing, and distribution of foods; methods of inspection and supervision. PREREQ: HEA 350, BIO 214, permission of instructor.

400 Advances in Dental Health I (3) A comprehensive examination and investigation of recent advances in dental health designed for the registered dental hygienist and certified dental assistant.

401 Seminar in Health (3) A study of current critical and controversial health issues.

404 Student Teaching: Middle School (6) Practical classroom experience in teaching health education. PREREQ. HEA 303, 304, 306, 308.

405 Student Teaching: Secondary School (6) Practical classroom experience in teaching health education PREREQ. HEA 404.

408 Dental Hygiene Field Experience (6) Field experience for dental hygienists who are working towards certification as public school dental hygienists, or preparing to teach in a school of dental hygiene.

410 Mental Health (3) Designed to aid persons in improving their understanding of themselves and others. Emphasis on ways to recognize mental health problems.

411 Advanced Human Nutrition I (3) In-depth examination of the digestion, transport and metabolism of carbohydrates, lipids, and proteins. Special emphasis is placed on metabolic interrelationships and hormonal control of the three processes mentioned above. PREREQ: BIO 110, 259, 269; CHE 230, 404, HEA 303.

412 Advanced Human Nutrition II (3) In-depth examination of the digestion, transport and metabolism of vitamins, minerals, and water. Special emphasis is placed on digestive and metabolic interrelationships and hormonal control. PREREQ: BIO 110, 259, 269; CHE 230, 404; HEA 303.

413 Nutritional Apsects of Disease I (3) This course covers nutritional assessment, drug-nutrient interactions, nutritional therapy in diseases of infancy and childhood, gastrointestinal diseases, diseases of the liver and gallbladder, and surgery. PREREQ: BIO 110, 259, 269; CHE 230, 404; HEA 303, 311.

414 Nutritional Apsects of Disease II (3) This course covers nutritional therapy in coronary heart disease and hypertension, diabetes mellitus, renal disease, cancer and disabling diseases. PREREQ. BIO 110, 259, 269; CHE 230, 404, HEA 303, 311.

420 Preparation for Internship (3) A comprehensive study and integration of the areas of responsibility for the public health major and their corresponding functions and skills essential for a successful internship. PREREQ: HEA 342.

421 Public Health Internship (12) A practical full-time work experience in a hospital, public health agency or industry jointly supervised by an on-site supervisor and a public health faculty member PREREQ: HEA 420.

♦435 Health Workshop (1-6) Special workshops on contemporary health problems and issues. Topics announced at time of offering.

440 School Health Program (3) School health services, environment and instruction, and organization and administration of a school health program

451 Toxic Substances (3) An investigation of the health problems caused by toxic substances primarily in the workplace and also in the general environment. PREREQ: HEA 350, BIO 204, CHE 231 (concurrent), permission of instructor.

452 Industrial Hygiene (3) A study of the anticipation, recognition, evaluation and control of health hazards in the work environment. PREREQ: HEA 350, or permission of instructor.

453 Occupational Safety (3) A study of the recognition, evaluation and control of safety hazards in the work environment. PREREQ: HEA 350, or permission of instructor.

455 Environmental Health Seminar (3) In-depth investigation and discussions on topics of particular concern or significance to the environmental health field. Topics will be varied from year to year. PREREQ: Senior environmental health major.

456 Environmental Health Internship (12) Field placement with an environmental health department in an industry, consulting firm or government agency for all environmental health majors. PREREQ: Senior environmental health major.

459 Industrial Health Engineering (3) The students will learn the various environmental health control strategies and the theoretical bases for these strategies. The students will also improve their quantitative skills solving problems concerning the control of environmental health and safety hazards. Cost effectiveness as well as technical effectiveness will be discussed. PREREQ: HEA 350, 452, or permission of instructor.

*460 Industrial Hygiene Techniques (3) Evaluation techniques for monitoring the industrial environment will be learned in a laboratory setting as well as in the field. These techniques will include monitoring of air quality, air flow, noise, heat stress, and radiation. Evaluation of personal protective equipment, pulmonary function testing and audiometric testing will also be investigated. PREREQ. HEA 350, 452, or permission of instructor.

461 Introduction to Watersheds (3) An introduction to the concept of watersheds and a discussion on how waterborne disease agents are distributed within a drainage basin. Emphasis is placed on methods of assessing pollution of water resources.

462 Water Quality and Health (4) An examination of the quality and quantity requirements of surface and subsurface water resources used

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*A laboratory fee may be charged.

♦ This course may be taken again for credit.

for drinking water supplies. Drinking water treatment techniques are detailed. Laboratory. PREREQ: HEA 350 or permission of instructor.
463 Wastewater Systems (4) An evaluation of the human health implications of liquid wastes; sources, waste characteristics, treatment and disposal will be considered. Laboratory. PREREQ: HEA 350, HEA 452 or permission of instructor.
470 Advances in Respiratory Therapy I (3) A comprehensive examination and investigation of recent advances in respiratory therapy designed for the registered or registry eligible therapist.
471 Individualized Study in Respiratory Care (2) A course to gain didactic knowledge through independent readings and research in a chosen sub-specialty. Practical application is stressed through a minimum of 112 hours of field experience in an appropriate setting.

Department of Nursing

Susan Slaninka, *Chairperson*

ASSOCIATE PROFESSORS: Michelmore, Slaninka

ASSISTANT PROFESSORS: Brown, Conroy, Coghlan-Stowe, Devlin-Kelly, Garrett, Matz, Nester, Sell

INSTRUCTORS: Edmiston, Martin, Santavicca, Stetson, Tucker

The Department of Nursing is accredited by the National League for Nursing and approved by the State Board of Nurse Examiners, Commonwealth of Pennsylvania.

Admission Criteria

Applicants for nursing must have completed work equal to a standard high school course including a minimum of 16 units: four units of English, three units of social studies, two units of mathematics (one of which must be algebra) and two units of science with a related laboratory or the equivalent. A combined score of 1000 is expected on the SAT examination.

BACHELOR OF SCIENCE IN NURSING

The Bachelor of Science degree program in nursing is offered by the Department of Nursing, which is an integral part of the School of Health Sciences. The family-centered program is based upon the concept that the person is a biopsychosocial being with basic health needs. The Department of Nursing believes that quality health care is a basic right of all people and that health care needs can be met through the practice of the professional nurse who has completed a systematic program of courses in the social and natural sciences, humanities, and the nursing major.

Characteristics of the graduate include: 1) an awareness and sense of responsibility of contemporary health and social issues; 2) an advocate for health care improvement within society through professional citizen activities at various adaptational levels and developmental stages in a variety of settings; 3) accountability and competency in utilizing the nursing process to assist clients; 4) collaboration, coordination and consultation as a colleague within the interdisciplinary health team; 5) belief in learning as a life-long process; 6) participation in the change process by collection of data applying to nursing theories and practice.

SPECIAL REQUIREMENTS

Generic nursing candidates are admitted once a year, in September.

Transfer students can be admitted in September or January.

Nursing students are required to supply their own transportation to clinical facilities.

Insurance. Students are required to carry liability insurance during the junior and senior year at a yearly cost of approximately $30. Students are also required to carry health insurance.

Uniforms. Students must purchase uniforms costing approximately $150 at the end of their sophomore year.

CPR Certification. Students enrolled in nursing courses with a clinical component are required to be currently certified by the American Red Cross, American Heart Association, or other acceptable resource in Life Support (two-person) Cardiopulmonary Resuscitation.

Calculations exam. Competency in calculation of dosages is a prerequisite to NSG/NSL 311. The nursing laboratory coordinator administers the calculations exam within the spring semester immediately prior to enrolling in the clinical courses.

HEALTH REQUIREMENTS

Nursing candidates must meet the general health requirements of all students at West Chester University for the freshman and sophomore years. Candidates must meet the following health requirements during the summer prior to the junior and senior years: inoculations against diphtheria, typhoid, tetanus, measles, and poliomyelitis (a series of four); a complete physical examination which must include a chest x-ray, a complete blood count, blood serology, TB skin test, urinalysis, dental and eye examinations, and any other diagnostic tests deemed necessary.

Nursing Laboratory

The nursing laboratory in Room 4-6 Anderson is available as a resource to help the nursing student in the learning process. There are two sections of the laboratory. One area houses a variety of equipment to allow the student to view A-V material such as filmstrips, slides and videocassettes related to psychomotor skills involved in nursing. This equipment can be used individually or in small groups. The other section contains equipment to allow the student to practice these skills. Two computers were added to the labs for use in various software packages.

Every student is required to utilize the learning laboratory at specified times. In addition, students are expected to spend time utilizing this resource for independent learning based on their individual needs. The laboratory is staffed by a full-time nursing laboratory coordinator who is a registered nurse. The hours when the lab is open will be posted.

ACADEMIC PROMOTION POLICY

Incompletes, Failures, and D Grades

All nursing students who have a grade of incomplete, D or F in required courses during the freshman and sophomore level must repeat these courses and achieve a satisfactory grade (C− or above) before entering the junior level nursing major courses. Nursing students must have a 2.0 GPA before entering the clinical courses at the junior year.

A student must achieve a grade of C− or better in the nursing major in the junior year for promotion to the senior year and achieve at least a C− in the senior year for graduation.

If a student must repeat a nursing course, a grade of C− or better in both the theory and laboratory (clinical practicum) components of the course must be achieved. The theory and clinical portions of a nursing course must be taken concurrently. Not achieving at least a C− in such cases is considered grounds for dismissal from the nursing major.

Other policies are explained in detail in the current issue of the departmental Student Handbook.

CORE REQUIREMENTS*

PSY 100, 210, ENG 120, ENG 121, SOC 200, BIO 100, CHE 103-104, CRL 103-104, BIO 204, 259 and 269, CHE 230, PSY 375, BIO 307, CHE 404, SOC 240, and MAT 121.

*Some of these courses may be used to satisfy distributive requirements.

NURSING CONCENTRATION REQUIREMENTS

NSG 212, 311-312, NSL 311-312, NSG 411-412, NSL 411-412. A total of 128 credits are required for graduation.

TRANSFER POLICY—Transfer students are accepted into the nursing major. The department also offers a program for registered nurses who wish to earn a baccalaureate degree in nursing. Detailed information about these programs may be obtained from the Office of Admissions or the department office.

LICENSURE ELIGIBILITY IN PENNSYLVANIA

Students must meet all program requirements to be eligible for NCLEX Examination upon graduation. Passing this examination designates RN status. In accordance with the January 1, 1986, Professional Nursing Law (P.L. 317, No. 69), felonious acts prohibit licensure in Pennsylvania in accordance with the following guidelines:

The State Board of Nursing in Pennsylvania shall not issue a license of certificate to an applicant who has been:

1. Convicted** of a felonious act prohibited by the act of April 14, 1972 (P.L. 233, No. 64), known as "The Controlled Substance, Drug, Device and Cosmetic Act", or
2. Convicted** of a felony relating to a controlled substance in a court of law of the United States or any other state, territory or country unless:
   a. At least ten years have elapsed from the date of the conviction;
   b. The applicant satisfactorily demonstrates to the board significant progress in personal rehabilitation since the conviction such that licensure should not create a substantial risk of further violations; and
   c. The applicant otherwise satisfies the qualifications contained in this act.

   A person convicted of any felonious act may be prohibited from licensure by the Board of Nursing at any time.

** Convicted includes a judgment, an admission of guilt, or a plea of nolo contendere.

COURSE DESCRIPTIONS

NURSING

Symbol: NSG

109 Health Issues of Women (3) (Offered conjointly with Department of Health, as NSG/HEA 109). This course encompasses the needs and concerns of women as consumers in our present health care system. It examines various biological, psychological, and social topics related to women's health care, including medical abuses, sexuality, sex roles, and women's health in the workplace. This course is an enrichment to liberal education, encouraging inquiry into previously neglected areas of women and health. It is offered in the Women's Studies Program, and is open to all University students, regardless of major, as a free elective.

110 Transcultural Health: Principles and Practices (3) (Offered jointly with Department of Health, as NSG/HEA 110.) This course examines the health beliefs and practices of a variety of subcultural groups in the U.S. Emphasis is placed on the application of multi-cultural health beliefs to the caring process. It utilizes the cross-cultural approach in meeting the health needs of clients and families. It is open to all University students, regardless of major, as a free elective.

212 Nursing Theories and Concepts (3) Sophomore year. Nursing theories and concepts, conceptual frameworks, theories from other disciplines which may apply to nursing, and the nursing process are studied in this course. PREREQ: Sophomore standing.

214 Proseminar: Nursing Theories and Concepts (3) In this course the student examines various nursing theories and concepts; conceptual frameworks, theories from other disciplines which apply to nursing; nursing history; nursing education; professionalism in nursing; the nursing process; ethical, legal, and political aspects of nursing; and current issues in nursing. This course is a prerequisite for upper division nursing courses and serves as a transition to subsequent nursing courses. There is no clinical practicum associated with NSG 214. PREREQ: R.N. licensure.

216 Adaptations in the Aged (3) In this course the student will have the opportunity to form a relationship with a healthy, elderly individual. Students will utilize communication skills through interaction on a one-to-one basis with senior citizens in a private home setting. Students will become acquainted with the problems of day-to-day living and the crises that face this population along with the adaptive strengths and resources that are an essential part of the healthy older person's personality.

218 Concepts in Caring (3) The emphasis of this course is that caring is a universal concept that can be viewed from many disciplines. Nurses, professionals in the caring business, serve as the guides in a creative journey connecting human caring and the various disciplines.

311 Adaptation I (5) Junior year, fall semester. The emphasis of this course is the prevention of illness and promotion of health by assessment of the health status, appropriate intervention, and evaluation of the health promotion plan. The nursing process provides the framework for promotion of wellness in a variety of settings with clients of any age group.

NSL 311 Adaptation I Laboratory (5) Clinical experiences are provided in agencies where relatively well populations have been identified, such as schools, nursery schools, well baby clinics, health maintenance clinics. NSG 311 and NSL 311 always must be taken concurrently. PREREQ: NSG 212, ENG 120, ENG 121, CHE 103, CHE 104, CRL 103, CRL 104, CHE 230, 404, BIO 100, 209-309, 214, PSY 100, 210, SOC 200, 240.

312 Adaptation II (5) Junior year, spring semester. The emphasis of this course is on the maintenance of health and promotion of adaptive responses in clients with chronic health problems. The nursing process is used to assist these clients to adapt to stressors through supportive therapeutic, palliative, and preventive measures.

NSL 312 Adaptation II Laboratory (5) Clinical experience is provided in settings where clients with chronic health problems have been identified. These settings include rehabilitation centers, a child development center, nursing homes, and acute care settings. These environments provide flexibility for students to implement changes for clients and acquire skills which will be utilized in other nursing courses. NSG 312 and NSL 312 always must be taken concurrently. PREREQ: NSG 311, NSL 311, BIO 307.

314 Internship (3) This course is designed to provide nursing students with the opportunity to enhance knowledge and skills acquired in NSG/NSL 311-312. Students will have the opportunity to participate in the care of a group of clients over a consecutive span of days and to increase their awareness of the professional role. PREREQ: Successful completion of NSG/NSL 311-312.

316 Coping with Cancer (3) The emphasis of this course is on coping with clients who have cancer. Various physiological and psychosocial effects this disease has on clients and their families will be examined. The course will allow students to explore their own feelings related to cancer and assist them in their contacts with cancer clients. Topics that will be discussed include dealing with loss, pain, pain management, hospice care, and communication with the cancer client. This course is open to all students.

◆410 Independent Study in Nursing (2) The student produces an independent research-oriented project under close faculty advisement on a nursing topic of special interest to the student. Participation in a selected field experience is optional. PREREQ: Permission of department chairperson.

411 Advanced Adaptational Problems I (5) Senior year, fall semester. The emphasis of this course is on the study of adaptive responses that create new stresses which require additional adaptations and frequently interrupt an individual's mode of functioning. The nursing process is used to assist clients in crises.

NSL 411 Advanced Adaptational Problems I Laboratory (5) Clinical experience is provided in acute care settings, in psychiatric in-patient settings, and in community health settings. NSG 411 and NSL 411 always must be taken concurrently. PREREQ: NSG 312, NSL 312, PSY 375.

412 Advanced Adaptational Problems II (6) Senior year, spring semester. NSG 412 is a continuation of NSG 411 with the emphasis on the subconcepts of decision making and advocacy. The nursing process is utilized interdependently in approaching multi-health care problems of clients. Special attention is given to inquiry as the student correlates nursing theories and concepts with identifiable research problems in varied environments. Opportunity is provided in this semester to develop organization and management skills.

NSL 412 Advanced Adaptational Problems II Laboratory (5) Clinical experience is provided in acute care settings, in psychiatric inpatient settings, and in community health settings. NSG 412 and NSL 412 always must be taken concurrently. PREREQ: NSG 411, NSL 411, MAT 121.

◆This course may be taken again for credit.

Department of Physical Education

John N. Trezise, *Chairperson*

Mildred Lee Greenwood, *Assistant Chairperson—Physical Education Sport and Safety, Coordinator Field Experience*

Charles Pagano, *Assistant Chairperson—Student Designed Concentration*

Monita Lank, *Assistant Chairperson—Exercise Science and Graduate Studies*

I. Bruce Norris, *Assistant Chairperson—Athletic Training*

Emlyn Jones, *Coordinator of Required Physical Education Program*

Barbara Lappano, *Coordinator—Recreation, Leisure, and Dance*

PROFESSORS: Donley, Lank, Lowe

ASSOCIATE PROFESSORS: Bonsall, Furlow, Goodwin, Greenwood, Karas, Lorback, Lubking, Parkinson, Shinners, Trezise, Wilkinson, Wintermute, Yoder

ASSISTANT PROFESSORS: Caldwell, Godek, Jones, Koehler, Lappano, Lauletta, Lepore, Pagano, Ray, Remley, L. Smith, P. Smith, Taylor, Thielz, Trnka

INSTRUCTOR: Norris

The Department of Physical Education offers four programs leading to the Bachelor of Science degree.

1. The B.S. in HEALTH AND PHYSICAL EDUCATION—TEACHER CERTIFICATION is for students interested in earning state teaching certification.
2. The B.S. in HEALTH AND PHYSICAL EDUCATION—STUDENT DESIGN is for students interested in preparing for a specific career which is related to health and physical education but does not require teacher certification.
3. The B.S. in HEALTH AND PHYSICAL EDUCATION—PHYSICAL FITNESS is designed for students interested in the exercise sciences. This program provides academic preparation for individuals who seek to plan and conduct physical fitness programs for healthy adults.
4. The B.S. in ATHLETIC TRAINING is designed to prepare students to achieve N.A.T.A. certification and meet the needs of students who wish to continue their education in graduate study in such fields as biomechanics, exercise physiology, physical therapy, and adult fitness.

BACHELOR OF SCIENCE—HEALTH AND PHYSICAL EDUCATION—TEACHER CERTIFICATION

1. General Education Requirements — 51 s.h.
2. Physical Education Theory — 47 s.h.
   PED 100, 243, 251, 257, 271, 310, 350, 351, 352, 353, 361, 451, 453, 492, 489, 490
3. Related Requirements — 24 s.h.
   HEA 100, HEA 201, HEA 202, HEA 206 or PED 385, HEA 306, SPC 101, EDF 100, EDP 250
4. Related Requirements that also satisfy the General Education Requirements
   CHE 100, BIO 259, BIO 269, PSY 100
5. Required Activities — 10 s.h.
   PED 109, 110, 111, 112, 113, 140, 141, 142, 143, 144, 208, 209, 210, 211, 212, 213, 214, 242
6. Area of Concentration — 6 s.h.
   Students who do elect an area of concentration must select any six hours of courses from those listed under all areas of concentration
7. Three extracurricular experiences prior to student teaching.
8. Certification granted when Pennsylvania requirements are met.

BACHELOR OF SCIENCE—HEALTH AND PHYSICAL EDUCATION—STUDENT-DESIGNED CONCENTRATION

1. General Education Requirements — 51 s.h.
2. Physical Education Theory — 18 s.h.
   PED 100, 251, 257, 271, 352, 451, 453
3. Related Requirements — 12 s.h.
   HEA 100 or HEA 201, SPC 101, HEA 202, HEA 206 or PED 385
4. Related Requirements that also satisfy the General Education Requirements
   CHE 100, PSY 100, BIO 259, BIO 269
5. Physical Education Activities — 6 s.h.
6. Student-Designed Curriculum — 34 s.h.
7. Intern Experience — 12 s.h.
8. Three Extracurricular Experiences
9. Pre-physical therapy and occupational therapy. S.D.C. students need a 2.5 G.P.A. before submitting a final proposal.
10. Students must have a 2.0 G.P.A. for internal transfer to the S.D.C. curriculum.

BACHELOR OF SCIENCE—HEALTH AND PHYSICAL EDUCATION PHYSICAL FITNESS SPECIALIST

1. General Education Requirements — 51 s.h.
2. Physical Education Theory — 21 s.h.
   PED 100, 251, 257, 271, 352, 385, 451, 453
3. Related Requirements — 15 s.h.
   SPC 101, HEA 100, HEA 202 or elective, MGT 301, HEA 303
4. Related Requirements that also satisfy the General Education Requirements — 18 s.h.
   CHE 100, PSY 100, BIO 259, BIO 269, CSC 101
5. Physical Fitness Specialist Program — 22 s.h.
   PED 361, 429, 431, 432, 433 or HEA 111, PED 434, 453, 454
6. Physical Education Activities — 6 s.h.
7. Intern Experience — 12 s.h.
8. Extracurricular Experience
9. Grade Requirement

BACHELOR OF SCIENCE—ATHLETIC TRAINING

1. General Education Requirements — 51 s.h.
2. Athletic Training courses — 30 s.h.
   PED 271, 272, 410, 411, 412, 413, 414, 415, 416, 417, 418, 454, PEL 410, 411
3. Related Requirements — 39 s.h.
   HEA 201, HEA 202, HEA 206 or PED 385, HEA 303, PED 352, PED 361, PED 452, PED 453, BIO 259, BIO 269, SPC 101
   An Advanced Psychology and Advanced Biology elective
   Three credit hours of Physical Activity
4. Related Requirements that also satisfy the General Education Requirement — 21 s.h.
   CHE 103, CRL 103, CHE 104, CRL 104, PHY 103, PHY 104, BIO 110, PSY 100, MAT 105 or MAT 121
   Other courses in chemistry, physics, mathematics, and biology may be substituted with approval of program director.
5. Clinical Experience
   Clinical experiences are provided in a number of high school, college and university settings. A faculty trainer is in charge of

the health care for each sport and a senior and/or junior student is assigned to assist. Athletic training students are not permitted to play varsity sports during their four semesters of clinical experience.

SUMMER COURSE WORK IN ATHLETIC TRAINING

A great many students have taken the summer courses which were a part of the Athletic Training Education Program the past 13 years. The students were either undergraduates at colleges where there was no approved education program in athletic training or they were graduate students seeking to qualify to take the national certification exam. The course work offered in the summer will consist of those subjects which are fundamental to the profession of athletic training, i.e. PED 410 and PEL 410 Physical Modalities, PED 411 and PEL 411 Therapeutic Exercise, PED 412 Pathology, and PED 413 Evaluation of Injury and Illness. A total of 13 credits offered in a nine-week block will be offered.

Students interested in taking the summer session block of courses should contact: Athletic Training Education Program Director, West Chester University, West Chester, PA 19383.

AREAS OF SPECIALIZATION

SECONDARY PHYSICAL EDUCATION

Preparation for Teaching (PED 310), Principles of Coaching (PED 452), PED 311, 314, 316, 318, 319, 320, 321, 322, 323, 324, 326, 327, 328, 331, 453, 454, 430.

ELEMENTARY PHYSICAL EDUCATION

Elementary Physical Education Curriculum (PED 354), PED 340, 440, 453, 449.

DANCE MINOR

Required Core: Modern Dance I (PEA 132); Jazz Dance I (PEA 133); History of Dance (PED 344); Choreography (PED 441). This is a two-track program (21 credits). Beyond the required core courses the student may select course(s) under educational concentration or theatrical performance concentration. Application for this program can be obtained from Barbara Lappano, dance coordinator.

DRIVER-SAFETY EDUCATION—12 S.H. FOR STATE CERTIFICATION

Required: Accident Causation and Prevention (PED 355); Critical Problems Within the Highway Transportation System (PED 356); High School Driver Education Program Management (PED 450); Introduction to the Driver Task (PED 456). NOTE: Meets state certification requirements for driver-safety education.

ATHLETIC TRAINING—32 S.H. FOR NATA CERTIFICATION

Required: PED 271, 272, 410, PEL 410, PED 411, PEL 411, PED 412, 413, 414, 415, 416, 418, 454, HEA 303.

SPECIAL PHYSICAL EDUCATION

PED 362, PEL 362, PED 360, PED 457, PED 379.

SECONDARY HEALTH EDUCATION

HEA 103, 105, 106, 301, 305, 401; Mental Health (HEA 410); Contemporary Social Problems (SOC 250); Basic Ecology (BIO 203).

RECREATION AND/OR OUTDOOR EDUCATION

This is a two-track program. The student may, under advisement, select courses in recreational services and/or outdoor education. Arts and Crafts (PED 367), Leadership in Recreation (PED 368), Principles of ROPE (PED 369), Camp Counseling (PED 370), Wilderness Adventure I (PED 371), Wilderness Adventure II (PED 372), Outdoor Recreation (PED 375), Intramural and Recreation Sports (PED 377), Supervised Camp Leadership (PED 467), Leadership in Recreational Outdoor Pursuits (PED 470), Planning Facilities for Athletics, Physical Education and Recreation (PED 430).

NON-DEGREE PROGRAMS

Certification in Driver Education and Safe Living (Highway Safety and General Safety Education).

Completion of the following program will enable teachers to endorse their teaching certificates with this area. Students must apply for the endorsement through the office of the dean of the School of Education.

PED 355, 356, 450, 456 — 12 s.h.

The program may be taken in whole or in part during summer sessions. Some of the courses are also offered in spring and fall semesters.

COACHING MINOR

Those students who successfully complete the program at West Chester earn a transcript and written endorsement from the School of Health Sciences attesting to school administrators that recipients have attained basic preparation for coaching. The program is a model for a needed broadening of coaching standards. Students pursuing the B.S. in health and physical education automatically achieve coaching certification.

Certification requires competencies equivalent of 15-18 hours of course work. Behavioral competencies in the theoretical foundations of coaching, skill acquisition, and management techniques are also required. Course offerings at both the undergraduate and graduate levels are available. The program is open to any person who applied for admission through the program advisor, Mr. Lorback. Applicants should direct inquiries to that office for a coaching minor brochure.

FACILITIES

Facilities to support the programs of the department have kept pace with a rapid increase in students and faculty. The Health and Physical Education Center and field complex, located on south campus, provide the University with one of the nation's outstanding facilities for education and research in health and physical education. Among the center's notable components are its research facilities, its multi-purpose teaching stations, and a one-acre gymnasium divisible into six separate pneumatically sealed gymnasiums. A vast complex of tennis courts and baseball, lacrosse, field hockey, soccer, and football fields are also located on the south campus.

COURSE DESCRIPTIONS
PHYSICAL EDUCATION ACTIVITY COURSES

Symbol: PEA (2) (1)

The first number in parentheses shows the number of class meetings per week. The second one shows the semester hours of credit.

A program of selected activities for all students. (Formerly designated PED 101-102)

100 Basic Swimming (non-swimmers)
101 Swimming Styles (strokes)
102 Springboard Diving
104 Skin and Scuba Diving*
105 Sailing*
106 Canoeing
107 Orienteering
108 Rock Climbing and Rappelling
109 Backpacking and Camping
110 Cycle Touring
111 Cross Country Skiing*
112 Horsemanship*
113 Angling
114 Skiing, Downhill*
115 Physical Conditioning
116 Personal Defense
117 Karate*
118 Ice Skating*
119 Archery
120 Badminton
121 Bowling*
122 Fencing
123 Golf
124 Gymnastics Men
125 Gymnastics Women
126 Handball/Racquetball*
127 Squash
128 Tennis
129 Basketball
130 Softball
131 Volleyball
132 Modern Dance I
133 Jazz Dance I
134 Ballet I
135 Tap Dancing
136 Fitness for Life (Theory and Lab)
140 Aerobic Dance—Fitness
190 General Activity
201 Power and Competitive Swimming
212 Advanced Horsemanship*
214 Advanced Skiing*
226 Advanced Racquetball*
228 Advanced Tennis
231 Advanced Volleyball
233 Jazz Dance II
234 Ballet II

236 Developing Personal Fitness Programs (2) (2) This course is designed to provide the student with a basic understanding of the scientific basis of physical fitness. The course is intended to help each student in developing a personal fitness profile and subsequent program of physical activity that will result in healthful living. The course will make use of practical experience and actual participation in fitness activities. Individual progress will be emphasized. Evening degree candidates only.

PHYSICAL EDUCATION

Symbol: PED

The first number in parentheses shows number of class meetings per week; the second one shows semester hours of credit.

100 Foundations of Physical Education and Sport (2) (2) An introduction to the discipline and profession of physical education and sport, with an emphasis on career guidance. The history and tradition of the field will be traced to provide perspective for student choices during their undergraduate education. Field experiences and advice will expose students to the current opportunities and methods for achieving personal goals.

107 Music and Movement (2) (1) A course which examines and develops the perception of rhythm through movement.

109 Wrestling (nine weeks) (3) (½) The teaching of the basic skills of the sport of wrestling. Fundamental skills, tactics, rules and combative lead-up activities for presentation to physical education classes in the public schools.

110 Soccer (nine weeks) (3) (½) The teaching of the basic skills of the sport of soccer. Fundamental skills, tactics, rules and lead up games are presented for all school ages.

111 Basketball (nine weeks) (3) (½) Emphasis is placed upon fundamental skills, rules and tactics of the sport, accomplished through drills and game situations.

112 Gymnastics I (3) (1) Apparatus skills, stunts, tumbling, and pyramids for teaching all age levels.

113 Physical Conditioning (nine weeks) (3) (½) The teaching of activities to help develop total health, especially physical fitness. Circuits of exercises, weight training, running and rope jumping are included for all ages.

140 Lifesaving (3) (1) Review of basic aquatic skills. Emphasis on lifesaving practices, safety and survival techniques. Successful completion of this course may lead to advanced lifesaving certification by the American Red Cross.

141 Fundamental Movement (3) (1) Fundamental locomotor and axial movement; music and rhythm in relationship. Rhythmical activities for the elementary program with suggested teaching methods.

142 Tennis (nine weeks) (3) (½) An explanation of the mechanics and specific skills of tennis. Emphasis is placed on conceptual understanding and the teaching progressions and methods.

143 Golf (nine weeks) (3) (½) The teaching of the basic skills of golf. Class management, techniques, rules and safety procedures to present this activity to physical education classes.

144 Archery/Badminton (nine weeks) (3) (½) The teaching of the basic skills of archery and badminton. Class management, techniques, rules and safety procedures to present these activities to physical education classes.

200 Elementary School Physical Education (3) (2) Theoretical and practical approach for the teaching of physical activities to elementary school children by the classroom teacher.

208 Self Defense (nine weeks) (3) (½) The teaching of the basic skills of self defense. Fundamental skills, tactics and methods of presentation to school aged groups.

209 Track and Field (nine weeks) (3) (½) Principles of running, throwing, jumping. Modification needed for physical education classes. Self-testing.

210 Softball/Baseball (nine weeks) (3) (½) The teaching of the basic skills of softball and baseball. Fundamental skills, tactics, rules and lead-up games for presentation to all ages.

211 Hockey (nine weeks) (3) (½) Basic fundamentals, tactics, and rules. Modified active games. Geared to teaching physical education classes.

212 Football (nine weeks) (3) (½) The teaching of the basic skills of football. Fundamental skills, tactics, rules and lead up games for all school ages.

213 Lacrosse (nine weeks) (3) (½) Basic fundamentals, tactics, and women's rules. Modified active games. Geared to teaching physical education classes.

214 Volleyball (nine weeks) (3) (½) The teaching of the basic skills of volleyball. Fundamental skills, tactics, rules and lead-up games for all school ages.

215 Preparation for Teaching Dance Technique (3) (1) Basic course offering methods and materials for teaching dance technique.

242 Methods and Skills of Dance in Education (3) (1) To provide to the student a generalized coverage of various dance forms that could be taught within the educational field, such as social dance, folk dance, square dance, aerobics or jazzercize, etc.

243 Preparation for Teaching Activities (3) (1) Methods of teaching in all areas of physical education and the development of appropriate lesson plans for all ages. PREREQ: Four activity courses.

251 Physical Activity for Special Children (3) (3) A course of adapted physical education. Common childhood disabilities are studied, with emphasis on problems of a chronic nature. Also screening and practical training, working with physically and mentally handicapped children.

PEL 251 Physical Education for Special Children (LAB) (0) A practical working experience with children and adults who have disabilities.

252 Classroom Activities for the Special Child (3) (3) To acquaint special education teachers with physical education activities useful in the classroom and developmental in nature. PREREQ: BIO 209.

257 Principles and Practices of Recreation (3) The basic principles of planning, administering and evaluating recreational programs for all ages in a variety of settings and participation in suitable recreational activities.

271 First Aid and Athletic Training (3) (2) A course designed to qualify students in American Red Cross first aid and CPR and to introduce the principles of athletic injury prevention and management. Offered fall and spring semesters.

272 Athletic Training Techniques (3) (2) A course designed to develop basic athletic training competencies for beginning athletic training students. Offered fall and spring semesters. PREREQ: PED 271.

275 Lifeguarding (3) (2) Theory and techniques relative to preventive lifeguarding, emergencies in and around water, water rescues, search and recovery operations, types and uses of equipment, records and reports, health and sanitation, and supervision of waterfront areas.

310 Preparation for Teaching Secondary Physical Education (3) (2) Each student develops a physical education activity unit and teaches one lesson from that unit. Further opportunities for familiarization with various teaching methods and styles through observation, demonstration lessons, and actual practice.

311 Coaching Racket Sports (3) (3) Advanced coaching and teaching techniques for the racket sports including tennis, badminton, racketball and squash.

314 Track and Field II (3) (2) PREREQ: PED 209.

316 Basketball II (3) (2) PREREQ: PED 111.

* Additional Fee

318 Lacrosse II (women's equipment) (3) (2)
319 Lacrosse II (men's equipment) (3) (2).
321 Volleyball II (3) (2) PREREQ: PED 214.
322 Soccer II (3) (2) PREREQ: PED 110.
323 Field Hockey II (3) (2) Individual and team tactics and special situations. Basic knowledge needed for coaching hockey. PREREQ: PED 211.
324 Football II (3) (2).
326 Wrestling II (3) (2) PREREQ: PED 109.
327 Gymnastics II (women's equipment) (3) (2) Teaching and coaching techniques for apparatus stunts, tumbling, pyramids. PREREQ: PED 113.
328 Gymnastics II (men's equipment) (3) (2) Advanced work on gymnastics apparatus including trampoline, with emphasis on teaching progression, spotting techniques, and class safety. PREREQ: PED 112.
331 Water Safety Instruction (3) (2) Leadership procedure in aquatics activities for schools and school camps. Swimming strokes and life saving techniques are analyzed. Opportunity to qualify as a waterfront safety instructor.
340 Self Testing Activities in Elementary School Physical Education (2) (2) Theory and methods to present activities to children on an individualized self-testing basis. The opportunity is provided for direct contact with children to try out the self-testing activities and prepare individualized programs.
343 Modern Dance II (3) (1) Emphasis is placed on longer combinations and more complex problem-solving themes. PREREQ: PED 215.
344 History of Dance (3) (2) Evaluation of dance as an art form in relation to man and his society. Physiological, sociological, and psychological implications; dance forms and types. Film and other materials focus on parallel developments in related arts.
345 Dance Production Workshop (3) (2) Study of the various elements of performance and dance production. All are integrated into a final performance which is created and directed by the students. Admittance is through auditions during the fall semester.
348 Instructional Skills for Aerobic Dance Fitness (2) (1) The purpose of this course is to teach various dance exercises, dance movements and aerobic dance routines to music with the intent of promoting cardiovascular fitness and endurance and improving muscle tone and coordination.
349 Advanced Social/Folk/Square Dance (3) (2) This course is designed to continue beyond the beginner level.
350 Teaching Physical Education in the Elementary Grades (6) (3) Students receive classroom theoretical and practical information and are assigned to elementary schools for teaching and observation with cooperating teachers and college supervisors. (Mon.-Wed.-Fri. 1-3 p.m.) PREREQ: PED 100, PED 243.
351 Evaluation in Health and Physical Education (3) (3) Selecting, administering, scoring, and evaluating tests of physical fitness, general motor ability, motor educability, and skill and knowledge.
352 Applied Exercise Physiology (3) (3) The application of physiological principles to physical education, exercise, and sport. PREREQ: BIO 259-269.
353 Organization and Administration of Physical Education, Health and Athletics (3) (3) Principles of program building in curricular and extracurricular programs; organizing, administering, and supervising physical education, health, intramural and interscholastic programs.
354 Elementary Physical Education Curriculum (3) (3) Constructing and evaluating the curriculum in elementary physical education. Progression and continuity along with developmental needs and interest of children, are considered.
355 Accident Causation and Prevention (3) (3) Survey of safety education. History, philosophy, and psychology of accident prevention.
356 Critical Problems Within the Highway Transportation System (3) (3) Techniques of assessing the knowledge, skill and psychophysical characteristics of a beginning driver; the relation of these to the safe operation of a motor vehicle.
360 Pathology of Special Physical Education and Therapeutic Recreation (2) (2) Considerations of the commonly seen disabling conditions with regard to anatomical and physiological changes.
361 Kinesiology (3) (3) Basic fundamentals of movement, articulation, muscular actions; analysis of the related principles of mechanics. PREREQ. BIO 259-269.
362 Therapeutics for Special Physical Education and Therapeutic Recreation (3) (3) For students who want to specialize in special physical education or therapeutic recreation. To improve the students' understanding of evaluation and programming in the psychomotor domain for special populations. Principles of therapeutic exercise, and guidelines for exercise programs for those handicapping conditions commonly seen in schools are presented. PREREQ: BIO 259, BIO 269, PSY 100, HEA 206, PED 251, PED 352, PED 361. Concurrently with PEL 362.
PEL 362 Therapeutics for Special Physical Education and Therapeutic Recreation Lab (3) (2) A course designed to give those students enrolled in PED 362 practical experience in those topics presented in PED 362. PREREQ: Concurrently with PED 362.
367 Arts and Crafts in Recreation (3) (3) Theoretical and practical applications of arts and crafts as recreative outlets for all age groups. Arts and crafts materials customarily found in school, camp, and community recreation programs are used.
368 Leadership in Recreation (3) (3) Basic concepts and leadership techniques, studied in various recreation settings. Opportunities for students to practice and develop their own techniques through work in community recreation agencies.
369 Principles of Recreational Outdoor Pursuits Education (3) (3) History, philosophical background, objectives, educational strategies, curriculum, safety considerations, and administration of an adventure-based outdoor pursuits program.
370 Camp Counseling (3) (3) Theory and practice in camping and outing programs, approached from viewpoints of the camper, counselor, supervisor, specialists, and director.
371* Wilderness Adventure I (2) A course designed to provide the participant with a wilderness backpacking experience. This program utilizes the environment and adventure activities to develop self confidence, camping and backpacking skills, concern for others, and a better understanding of the environment.

* Additional fee required

372* Wilderness Adventure II (2) This course is designed to provide the participant with an experiential outdoor pursuits experience utilizing the bicycle as the primary mode of transportation. Students will tour through rural country learning biking and camping skills as they travel.
373* Wilderness Adventure III (2) This program is designed to offer adventure and learning by utilizing the white water river environment. The course is designed to instruct students in camping, basic, and white water canoe skills and it will culminate with a day wilderness river trip.
375 Outdoor Recreation (3) (3) The purpose of this course is to acquaint the student with the role outdoor recreation plays in today's society. The student will develop an appreciation for the outdoors through participation in outdoor recreation programs and learning skills necessary to participate in the program.
376 Recreational Games (3) (2) This course is designed to provide the student with the skills, techniques and available resources involved in planning and directing recreational games. Instruction includes selection of games, activities and opportunities for practical application of interested students.
377 Intramural and Recreational Sports (3) (3) A study of the basic ingredients required for administering successful intramural programs. The student serves in the intramural office and program as a student leader and supervisor. In addition, the student will study the rules, regulations, and policies of community sports with national headquarters and leadership.
378 Field Experience (3) (3) Designed as a practical exposure in the field of the student designed concentration. Students must solicit approval of the appropriate agency, develop proposal for on-site experience, and secure agreement from faculty advisor.
379 Therapeutic Recreation (3) (3) This course is designed to familiarize the student with that segment of the population having special needs. The course will combine lecture and "hands on" experiences with as many of the different groups as possible in the settings they are found in the community. PREREQ: PED 251 and PED 257 or instructor's permission.
380 Women and Sport (3) (3) An examination of women's participation in sport from historical, cultural, psychological, physical and legal perspectives; emphasis placed upon women in sport in American society today.
385 Exercise, Play and Development (3) (3)To understand human development throughout the lifespan from a physical, mental, social and emotional viewpoint. To understand the role that exercise and play have in the development of the individual.
410 Therapeutic Modalities for Athletic Training (3) (3) Physical agents used in athletic training are presented with regard to the physics, physiological effects, indications, contra-indications and progression. Offered in the spring and summer. PREREQ: PED 352, 361.
PEL 410 Therapeutic Modalities for Athletic Training Lab (2) (1) Lab experiences in the application of physical agents presented in PED 410. Offered in the spring and summer. PREREQ. PED 410.
411 Therapeutic Exercise for Athletic Training (3) (3) The principles, objectives, indications, contra-indications and progression of various exercise programs used in the rehabilitation of athletic injuries are presented. Offered in the summer and fall only. PREREQ: PED 352, 361.

PEL 411 Therapeutic Exercise for Athletic Training Lab (2) (1) Lab experiences in the application of exercises presented in PED 411. Offered in the summer and fall. PREREQ: PED 411.

412 Pathology for Athletic Training (3) (3) A presentation of the pathological considerations for conditions commonly seen in athletics. Offered in the summer and fall. PREREQ: PED 352, 361.

413 Athletic Injury/Illness Evaluation (3) (2) A presentation of the evaluation techniques required to evaluate athletic injuries and illnesses including practical experiences in the techniques. Offered in the spring and summer. PREREQ: PED 412.

414 History, Organization and Administration of Athletic Training (2) (2) A presentation of the historical and current perspectives of athletic training including techniques for organizing and administering athletic training programs. Offered in the fall semester only.

415 Athletic Injury Management I (2) (2) Clinical experience of 200 or more hours with specific behavioral objectives in the management of illness, injuries of the lower extremity and equipment fit. Offered in the fall semester only. PREREQ: PED 411, PEL 411, PED 412.

416 Athletic Injury Management II (2) (2) Clinical experience of 200 or more hours with specific behavioral objectives in the management of injuries to the shoulder girdle and upper extremity. Offered in the spring semester only. PREREQ: PED 410, PEL 410, PED 413.

417 Athletic Injury Management III (2) (2) Clinical experience of 200 or more hours plus specific behavioral objectives for the management of neurological conditions and conditions of the head, neck, spine and trunk. Offered in the fall semester only. PREREQ: PED 410, 411, 413, 416.

418 Athletic Injury Management IV (2) (2) Clinical experience of 200 or more hours plus specific behavioral objectives for the management of conditions of the internal organs, systemic disorders and the skin. Offered in the spring semester only. PREREQ: PED 410, 411, 412, 413

PED 429 Electrocardiography and Stress Testing (3) Designed to prepare the prospective fitness instructor in exercise testing protocols as well as how to record, label and calculate data with exercise stress testing equipment and a standard 12-lead electrocardiogram. PREREQ: BIO 259-269, PED 352.

430 Planning Facilities for Athletics, Physical Education and Recreation (3) (3) Management and planning of the facilities for athletics, school physical education, and recreational programs, playfields, playgrounds, buildings and auxiliary structures as well as the maintenance of these facilities.

431 Physical Fitness Assessment and Exercise Program (3) (3) Designed to prepare students to assess the physical fitness levels of healthy but sedentary adults and prescribe individualized exercise programs. PREREQ: BIO 259, 269, PED 351, 352.

432 Exercise Techniques/Theory and Practice (3) (3) Analysis of various exercise techniques, devises and systems emphasizing their use and safety. Clinical experience in strength and ROM, testing and prescription. PREREQ: BIO 259, PED 361.

433 Exercise and Stress Management (3) (3) Focuses on the use of exercise in the management of stress. The course includes exercise techniques that may be useful in alleviating stress.

434 Organization and Management of Adult Fitness Programs Clinic/Seminar (3) (3) Designed to provide students with practical experience in organizing and managing physical fitness programs for adults. PREREQ: BIO 259, 269, PED 352, 361, 431, 433.

435 Physical Fitness Specialist Internship (12) (6) (6) Experience working in a cardiovascular rehabilatory center or similar clinical setting under the supervision of qualified personnel for one-half semester and practical experience in an adult physical fitness center under the supervision of qualified personnel for one-half semester. PREREQ: BIO 259, 269, PED 352, 361, 431, 433.

440 Movement Education in Elementary Physical Education (2) (2) Teaching techniques and subject matter for a program of movement education suitable for children. Designed to help children develop awareness of the body and space in order to develop effective movement patterns.

441 Principles of Choreography (3) (1) The art of dance composition. Basic elements of space, rhythms, and motion dynamics. Students design original movement, progressing from simple to complex solo and group forms. PREREQ: PED 215.

443 Modern Dance III (3) (2) Advanced level modern dance techniques, with emphasis on all aspects of production: accompaniments, costume, sets and lighting.

444 Organization and Management of Aquatic Facilities (3) (3) A study of the organization and administration of aquatic recreational areas, including ocean, natural fresh water and manmade facilities. The student will acquire the skills and understandings necessary to develop aquatic programs and/manage aquatic facilities. Spring semester only.

445 Dance/Movement for Special Groups (2) (2) Adaptation of dance movement with emphasis on methods, techniques, and activities suitable for special groups (elderly, disabled, mentally retarded, special groups).

446 Repertory Performance (2) The purpose of this course is to offer the dance students enrolled the invaluable experience that can only be gained from performance. To ensure maximum benefit, the objectives are thorough studio rehearsal of dances, thorough lighting and staging rehearsals, and well-directed performances.

449 Learning on the Move (3) (3) A combination of movement education and perceptual motor theory and activities to help teachers and parents guide the children to maximum developmental potential. Pre-school, nursery, and kindergarten ages.

450 High School Driver Education Program Management (3) (3) A study of the total safety program, with emphasis on the teaching of safety. Each student prepares a practice lesson.

451 History and Philosophy of Health and Physical Education (2) (2) A study of past and present concepts of physical education; philosophy and principles of modern physical education programs.

452 Principles of Coaching (2) (2) Principles and methods of coaching sports in the school program.

453 Motor Learning (3) (3) A study of the theories of learning in relation to the acquisition of motor skills.

454 Theories and Practices of Conditioning and Training (2) (2) A course to help equip the student to design and manage year round conditioning programs for athletes. PREREQ: PED 352, 361.

456 Introduction to the Driving Tasks (3) (3) An advanced course to prepare students to teach driver education in the secondary schools.

457 Psychosocial Aspects of Physical Disability (3) (3) A study of the psychological and social implications of physical disabilities. PREREQ: PSY 100 or equivalent; any basic course about the disabled person.

458 Physical Disabilities of Childhood (2) (2) A course designed for students in special education. Common orthopedic and neurological disabilities of childhood, especially chronic deviations. Emphasis is on understanding the medical aspects and problems of rehabilitation.

465 Mechanical Analysis of Motor Skills (3) A problem solving approach to skill analysis using qualitative and quantitative video and amematographic analysis as well as elementary force-time and accelerometry techniques. Useful for teachers, trainers, coaches, and exercise professionals.

470 Leadership in Recreational Outdoor Pursuits (3) (3) This course is designed to provide instruction which would help persons desiring a career in recreational outdoor pursuits education, or develop an outdoor education or physical education program using activities, processes, and educational methodology in a safe and meaningful manner.

473 Independent Study and Special Projects (1-3) Provide an opportunity for selected students to pursue areas of special interest and talent or to take advantage of special conferences and/or seminars. PREREQ: Approval of department chairperson.

475 Mental Training In Sport (3) (3) Techniques of mental training for sport and physical activity including relaxation training, concentration skills, breathing regulation, positive imagery, autogenic training and meditation.

489 Student Teaching (6) Observation and participation in teaching situations in elementary, junior and senior high schools under qualified cooperating teachers and college supervisors. PREREQ: PED 243, 350, 353, HEA 206, 306, extracurricular requirement and updated medical examination.

490 Student Teaching (6) Observation and participation in teaching situations in elementary, junior and senior high schools under qualified cooperating teachers and college supervisors. PREREQ: PED 243, 350, 353, HEA 206, 306, extracurricular requirement and updated medical examination.

491 Internship (3-12) Interns will perform a variety of services to the agency. It is expected that interns will be involved in meaningful work projects during the placement with adequate time to interact with their work supervisors for questions, answers and knowledge sharing. PREREQ: Acceptance of final S.D.C. proposal.

492 Principles and Practices of Teaching (2) Deals with the professional preparation of the major health and physical education teacher certification student. It is offered concurrently with the student teaching experience and is designed to assist the student in the public school setting. An examination of current problems and issues in the profession and in the schools leads to discussion of problem prevention and solution. Lectures on job procurement skills are included.

School of Music

Malcolm J. Tait, *Dean*

PROFESSORS: Barrow, Johns, Laudermilch, Merrell, Murray, Nelson, Pennington, Schick, Schmidt, Sullivan, Veleta, Voois, Wells, Wilkinson

ASSOCIATE PROFESSORS: Ahramjian, Aliferis, Alt, Bedford, Belmain, Boerlin, Dorminy, Friday, Gangemi, Guidetti, Hegvik, Klein, Lucas, McVoy, Pandel, Southall, Vandever, Wagner, Whitten, Williams

ASSISTANT PROFESSORS: Chilcote, Fields, Markey, Newbold, Pippart, Price, Richmond, Richter, Sprenkle, Taylor, Winters

INSTRUCTORS: Goebel, Isaacson, McKenna, Metcalf, Paulsen, Villella

MUSIC TESTS—BACHELOR OF SCIENCE IN MUSIC EDUCATION

(1) Each candidate must demonstrate skill in at least one performing medium in which he or she excels: piano, organ, voice, guitar, or a band or orchestra instrument. It is preferable, although not required, for pianists and vocalists to perform at least part of their audition from memory.

(2) All candidates are tested in voice and piano.

(3) Piano, organ, or voice majors with band or orchestra instrument experience are urged to demonstrate their ability on their instruments.

Note: All candidates must bring music for the vocal, piano, and instrumental compositions they intend to perform, and should come prepared with a song that will demonstrate vocal range and quality.

MUSIC TESTS—BACHELOR OF MUSIC

Each candidate in performance must demonstrate an advanced level of proficiency in the major area of performance as evidenced by the ability to perform compositions representing a variety of musical periods and must show potential as a professional performer. Memorization is required for pianists and vocalists. Each candidate in theory and music history must demonstrate acceptable background in a major performing area. Candidates in composition must take a sight-singing test in addition to the piano and voice tests and demonstrate an acceptable background in a major performing medium; they must also present scores of completed compositions.

NOTE:
Candidates for the B. Mus. degree will also take all of the tests required for admission to the B.S. program.

REQUIREMENTS COMMON TO ALL MUSIC PROGRAMS

1. General Requirements — 38-50 s.h.
2. Theory Requirements — 20 s.h.
   MTC 112, 114, 113, 115, 212, 214, 213, 215
3. Music History Requirements — 6 s.h.
   MHL 221, 222

BACHELOR OF SCIENCE—MUSIC EDUCATION

The B.S. in MUSIC EDUCATION is a balanced program of general, specialized, and professional courses leading to qualification for a Pennsylvania Instructional I Certificate to teach music in the elementary and secondary schools of Pennsylvania. Three teaching concentration programs—general, instrumental, and vocal-choral—are provided. The "Handbook for Students in Music—Undergraduate Division" should be consulted for the current general, music, and concentration requirements.

1. Required Music Education Courses — 20-21 s.h.
   MUE 331, 332, 333, 335, 431, 432
2. Other Music Requirements — 46-59 s.h.
   Major performing instrument, applied music courses, conducting, music organizations, MTC 450, music electives
3. Education Courses — 6 s.h.
   EDF 100, EDP 250

BACHELOR OF MUSIC

REQUIREMENT COMMON TO B.MUS. PROGRAMS

Foreign Language — 6-12 s.h.

The B.MUS. in COMPOSITION offers comprehensive theory and composition courses designed to develop creative skills enabling the student to write in an acceptable contemporary idiom and to develop an individual style. The "Handbook for Students in Music—Undergraduate Division" should be consulted for the current general and music requirements.

Required Composition Courses — 24 s.h.
MTC 312-413, 341, 342, 344, 346, 417

Other Music Courses — 33 s.h.
MHL elective, conducting, music organization, music electives, performance area

The B.MUS. in THEORY offers extensive training to develop analytical skills leading to the comprehension of the structure and form of music of all styles and periods, and to develop acceptable writing skills. The "Handbook for Students in Music—Undergraduate Division" should be consulted for the current general and music requirements.

Required Theory Courses — 21 s.h.
MTC 312, 341, 342, 344, 346, 417, 479

Other Music Courses — 38 s.h.
MTC 450, MHL elective, conducting, performance area, music organizations, music electives

The B.MUS. in MUSIC HISTORY prepares the student for graduate studies in music history and literature, and musicology. The required courses provide a broad foundation in the major field. The wide choice of music electives permits the student to structure a program compatible with his/her particular career goals and interests. The "Handbook for Students in Music—Undergraduate Division" should be consulted for the current general and music requirements.

Required Music History Courses — 15 s.h.
MHL 440-445 (four courses), MHL 470

Music History Electives — 12 s.h.

Music Electives — 12 s.h.

Other Music Courses — 13 s.h.
MTC 342, PIA 103-104, conducting, music organization

The B.MUS. in PERFORMANCE is for students who demonstrate a high degree of ability on their chosen instrument and who desire to concentrate on developing that ability. Majors in the program should consult the "Handbook for Students in Music—Undergraduate Division" for the current general and music requirements.

1. BACHELOR OF MUSIC—INSTRUMENTAL PERFORMANCE
   Required Instrumental Courses — 39 s.h.
   Major instrument 141-442, AIC 311, 312, Band/Orchestra, Master Class/Ensemble

Other Music Courses 29 s.h.
MTC 344, 341, 450, Secondary Applied Music, Major Literature Course, Music electives

2. BACHELOR OF MUSIC—KEYBOARD PERFORMANCE (Optional emphasis in pedagogy)
Required Keyboard Courses (performance) 40 s.h.
PIA 141-442; 405; 406; 425; 426; 450 or 452
Other Music Courses 26 s.h.
MTC 344, MHL elective, conducting, secondary performance area, music organization, master class, music electives
Required Keyboard Courses (pedagogy) 44 s.h.
PIA 141-442, 405, 406, 425, 426, 450, 451, 452, 453
Supportive Elective 3 s.h.

3. BACHELOR OF MUSIC—VOCAL PERFORMANCE
Required Vocal Courses 44 s.h.
VOI 141-442, 329, 411, 412, 413, 414, 424, Vocal literature course, VOC 311, 312
Other Music Courses 22 s.h.
MTC 344, 450, PIA 191-201, music electives, chorus

The B.MUS. in JAZZ STUDIES AND CONTEMPORARY MEDIA is designed for students who want to develop their performance abilities in today's rapidly changing musical scene. The program is thoroughly rooted in traditional music. Consult the "Handbook for Students in Music—Undergraduate Division" for the current general and music requirements.

Required Jazz Courses 32 s.h.
MTC 261, 271, 361, 362; MHL 451; AJZ 321, 331, 361, 362, 365
Private Lessons in Jazz: 311, 312, 411, 412

MINOR IN MUSIC

This program is geared toward liberal arts students with an interest in music. The "Handbook for Students in Music—Undergraduate Division" should be consulted for the current general and music requirements.

REQUIRED COURSES 12 s.h.
MTC 112, 114, MHL course, music organization, PIA 191, 192
Music Electives 6-9 s.h.
The "Handbook for Students in Music—Undergraduate Division" should be consulted for current music requirements.

This minor may be taken as a concentration by students in the Associate of Arts in liberal studies program or as one of the minors in the Bachelor of Arts or Bachelor of Science in liberal studies general degree program.

MINOR IN JAZZ STUDIES

This program is designed primarily for students currently enrolled in a music degree program. Students in other degree programs will be admitted if qualified. Students must have the permission of both their major advisor and the chairperson of the Instrumental Department. The "Handbook for Students in Music- Undergraduate Division" should be consulted for current requirements.

REQUIRED COURSES 18 s.h.
MTC 361, 362, AIM 361, 362, 365, MHL 322, AES 151, 152
Music Electives 0-3 s.h.
ACP 193, AEO 121, AES 151, 152

MINOR IN MUSIC HISTORY

This program is designed primarily for students currently enrolled in a music degree program. Students in other degree programs will be admitted if they qualify. Students must have the permission of both their major advisor and the chairperson of the Music History Department. The "Handbook for Students in Music—Undergraduate Division" should be consulted for current requirements.

REQUIRED COURSES

Any three of the following six courses—MHL 440-445
Any two of the following genre or composer courses—MHL 450-457, 460-462, MTC 342.

Department of Music Education

Richard C. Merrell, *Chairperson*

FACULTY: Belmain, Markey, Pippart, Richmond, Wells

COURSE DESCRIPTIONS
MUSIC EDUCATION
Symbol: MUE

231 Music for the Classroom Teacher (3) Designed to equip the elementary classroom teacher to participate in the music program. Emphasis on teaching procedures and materials.

232 Music in Early Childhood (3) Designed to equip the teacher of early childhood to develop specific concepts utilizing singing, rhythmic, and melodic activities. Emphasis on listening and movement to music.

233 Handbells (1) Selection of music; care of bells; maintenance of library; programming; styles; history of bells; bell assignments; performance practice; performance.

331 The Music Curriculum, K-6; Methods and Materials (3) The study of music and the learning process at the elementary level; the listening program, pedagogy for the elementary music program, and materials. See note below.

332 The Music Curriculum, 7-12; Methods and Materials (3) The study of music and the learning process at the secondary level; the listening program, the middle and junior high school general music programs, ethnomusic, programs and performances, basics of administration, related arts, the music major program, and evaluative techniques. See note below.

333 Instrumental Methods (3) Fundamentals underlying the development of instrumental programs in the public schools. Emphasis upon program organization and administration, teaching procedures, and materials.

NOTE: MUE 331 must be successfully completed before MUE 332. The sequence for these REQUIRED music education courses is consecutive semesters: MUE 331 followed by MUE 332 and then MUE 431/432 the following semester. Enrollment for these courses is limited on a yearly basis and is planned at a meeting the spring semester for sophomores. SEE DEPARTMENT CHAIRPERSON MUE 333 is scheduled during the semester with MUE 332.

335 Choral Materials and Practices (2) Designed to acquaint the student with the vast amount of choral music suitable for school use. Program building and rehearsal techniques are demonstrated. Offered in fall only.

337 Instrumental Techniques and Materials (2) For juniors and seniors who desire to specialize in instrumental music. Considers rehearsal procedures, effective materials, minor repairs of instruments, competitions and festivals, and marching band procedures. Offered in spring only. PREREQ: MUE 333.

338 Comprehensive Musicianship/Leadership Training in Music Education (2) A course designed to help future professionals develop leadership qualities and pragmatic instructional skills. Motivational strategies as advocated by leading authorities will be emphasized. Content includes visionary leadership, time management, and principles in self-discipline, self-confidence

and problem solving. Teaching assignments will include methodologies in comprehensive musicianship and a variety of teacher/leader concepts.

412 Teaching Music Listening at the Elementary Level (3) The teaching of the elements of music, musical concepts, and the development of aesthetic sensitivity through listening.

422 Music in the Middle School (3) Review and critical analysis of music education in the middle school: philosophies; curriculum; practices; personnel.

423 Elementary Orff Techniques (3) Basic Orff melodic and rhythmic techniques for the elementary classroom. Emphasis on developing concepts for individual teaching situations. PREREQ: MUE 331, 332.

425 Elementary Kodaly Techniques (3) Basic Kodaly techniques. Adaptation of teaching procedures for elementary school: rhythm; melody; movement, improvisation.

428 Music in Special Education (3) Characteristics of special pupils; adaptation of teaching techniques, materials, curriculum. PREREQ: MUE 231, 232, or 331.

430 Related Arts Pedagogy in Music Education (3) Principles of related-arts teaching related to musical elements, art, and creative movement, with appropriate teaching techniques at specified grade levels. Materials for school music programs; basal music series, other texts and literature, resources in related arts. Demonstration lessons and unit planning.

431 Student Teaching (Elementary) (6) Observation and participation in teaching vocal and instrumental music at the elementary level Undertaken in conjunction with qualified cooperative teachers. Professional conferences and visitations are an integral part of the experience. PREREQ: See 432.

432 Student Teaching (Secondary) (6) Observation and teaching general, vocal, and/or instrumental music at the secondary level. Professional conferences and visitations are an integral part of the experience. PREREQ for 431/432: Satisfy requirements under "Admission to Teacher Education." GPA 2.50. Grades of C or better in required methods classes and final required Keyboard minor and Voice minor. Complete Music Theory and Aurals, Music History, Conducting, and all instrument classes. 96 semester hours including the required Music Theory, Aural Activities, Music History, Conducting, and all professional education courses.

Department of Music History

Liselotte M. Schmidt, *Chairperson*

FACULTY: Johns, Murray, Price, Winters

COURSE DESCRIPTIONS
MUSIC HISTORY

Symbol: MHL

121 Fine Arts (Music) (3) Designed for the general requirements An introductory course in the history and appreciation of music from the Middle Ages through the contemporary period Not open to music majors.

NOTE: other courses are available to the non-music major for general requirements. Particularly suitable are MHL 123, 125, 126. Additional courses may also be taken for the same purpose, with consent of department chairperson

123 Music in Western Civilization II (3) The history and appreciation of music from the classical through the contemporary period. Not open to music majors.

125 Perspectives in Jazz (3) For non-music majors. Guided listening to improve understanding and enjoyment of jazz with emphasis upon jazz heritages, chronological development, and sociological considerations, culminating in an analysis of the eclectic styles of the 1960's and 70's. Not open to music majors.

126 Folk and Traditional Music of the Western World (3) Introductory survey of music and musical styles of folk and traditional music in the Western world. Analysis of styles, forms, aesthetic and cultural concepts, and practices, surveyed as they relate to folk music and the mainstream of art music. Not open to music majors.

♦179 Special Subjects Seminar (3) Significant topics in music history and literature presented by faculty members and/or visiting lecturers. Designed for the non-music major who has had little or no previous musical experience. Fulfills the general requirements. Not open to music majors.

#201 Form and Style in the Arts (3) Relationships between the arts (music, literature, fine arts, and dance) stressed through common principles of form and style. Concentration on the development of skills of critical perception through practical application with reference to various arts. Fulfills the interdisciplinary requirement.

221 Music History I (3) A history of music from earliest known times through the Baroque Period. Analysis of styles, forms, aesthetic concepts, and practices. PREREQ for music majors: MTC 113. For non-music majors: consent of instructor.

222 Music History II (3) A history of music from the Classical through Contemporary Period. Analysis of styles, forms, aesthetic concepts, and practices. PREREQ for music majors: MTC 113. For non-music majors: consent of instructor.

310 Collegium Musicum (1) A chamber ensemble specializing in the use of authentic instruments and performance techniques in the music of the Medieval, Renaissance, and Baroque eras. Membership by audition.

320 Folk and Non-Western Music (3) A study of non-Western folk music, along with an introduction to ethnomusicology and its research techniques. PREREQ: MHL 221, 222.

322 History of Jazz (3) A survey of the history of jazz, including representative performers and their music. PREREQ: MHL 221 and 222, or permission of the instructor.

440 Medieval Music (3) Development of plainsong and secular monody and beginnings of early history of polyphony through the 14th century. Consideration of trends in the visual arts, history, and literature. PREREQ: MHL 221 and 222, or permission of instructor.

441 Renaissance Music (3) Sacred and secular music in the age of Dufay; changing forms and styles through the music of Franco-Flemish groups; the frottola and related forms; Palestrina and his contemporaries, with a brief consideration of trends in the visual arts, history, and literature. PREREQ. MHL 221 and 222, or permission of instructor.

442 Baroque Music (3) Styles and forms of Baroque repertoire; contributions of the major Baroque composers; role of music and musicians in the society of the period. PREREQ: MHL 221 and 222, or permission of instructor.

443 Late 18th-Century Music (3) Changing styles and forms by the sons of J.S Bach; the Viennese pre-classicists; the Mannheim school; opera; Joseph and Michael Haydn, Mozart, and their contemporaries, the early works of Beethoven. PREREQ: MHL 221 and 222, or permission of instructor.

444 Nineteenth Century Music (3) Historical developments during the Romantic Period (ca. 1800-1900). Analysis of changes and trends; comparative aspects of new forms. PREREQ: MHL 221 and 222, or permission of instructor.

445 Twentieth Century Music (3) Trends in modern music from about 1900 to the present. Analysis and listening experience. PREREQ: MHL 221 and 222, or permission of instructor.

451 Music in the United States (3) Survey of the development of music and musical styles from 1620 to the present. Analysis of styles, forms, aesthetic concepts, and practices. PREREQ: MHL 221 and 222, or permission of the instructor.

452 Performance Practices I (3) Historical and analytical consideration of the special problems in stylistic realization and performance of music in the Middle Ages and Renaissance (ca. 900-1600). PREREQ: MHL 221 and 222, or permission of the instructor.

453 Performance Practices II (3) Historical and analytical consideration of the special problems in stylistic realization and performance of music of the Baroque, Classic, and early Romantic eras (ca. 1600-1850). PREREQ: MHL 221 and 222, or permission of the instructor.

454 History of Opera (3) A basic course in the origin and development of opera and its dissemination throughout the Western World. PREREQ: MHL 221 and 222, or permission of instructor.

455 History of Orchestral Music (3) A study of representative orchestral works: symphonies, concerti, suites, overtures, and others, from the Baroque Period to the present. PREREQ: MHL

♦This course may be taken again for credit.
#Approved interdisciplinary course

221 and 222, or permission of instructor.
456 History of Musical Instruments (3) The development of musical instruments from antiquity to the present. A world view of instruments will include function and performance practice.
457 History of Chamber Music (3) Analysis of style and form of chamber music repertoire from the Baroque through Modern Period. PREREQ: MHL 221 and 222 or permission of instructor.
460 Bach and His Works (3) The life of J.S. Bach; works for organ, keyboard and other instruments; cantatas and larger choral works. PREREQ: MHL 221 and 222 or permission of instructor.
461 Beethoven and His Works (3) The life and times of Ludwig van Beethoven; consideration of orchestral, chamber, and vocal music, emphasizing chronological stylistic development; consideration of Beethoven's influence on the later 19th century. PREREQ: MHL 221 and 222 or permission of instructor.

462 Mozart and His Works (3) A study of the life and music of Wolfgang A. Mozart with special reference to the period in which he lived. PREREQ: MHL 221 and 222 or permission of instructor.

470 Research in Music History (3) Basic bibliographical material, library resources, and research techniques, applicable to undergraduate study in music history and literature. Required of B.M. majors in music history. Open to others with permission of instructor and department chairperson.

♦479 Seminar in Music History I (1-3) Significant topics presented by faculty members and/or visiting lecturers. Designed to meet specific needs of undergraduate music majors.
♦480 Seminar in Music History II (1-3) Significant topics presented by faculty members and/or visiting lecturers. Designed to meet specific needs of undergraduate music majors.
♦481 Independent Study (1)
♦482 Independent Study (2)
♦483 Independent Study (3)
MHW 401-410 Workshops in Music History (1-3) Participation-oriented workshops designed to meet specific needs in music history and to develop skills for practical application in teaching and professional settings.

Department of Instrumental Music

Edward A. Barrow, *Chairperson*

FACULTY: Ahramjian, Boerlin, Goebel, Guidetti, Hegvik, Klein, Laudermilch, Lyons, McKenna, Newbold, Richter, Southall, Villella

COURSE DESCRIPTIONS

INSTRUMENTAL MUSIC

NUMBERING SYSTEM
Private and class lessons given by Department of Instrumental Music are shown by the following numbers, together with the appropriate prefix:
BAR—Baritone
BAS—Bass
BSN—Bassoon
CLT—Clarinet
FLU—Flute
FRH—French horn
GTR—Guitar
HRP—Harp
JBR—Jazz Brass
JPR—Jazz Percussion
JST—Jazz Strings
JWW—Jazz Woodwinds
OBO—Oboe
PER—Percussion
SAX—Saxophone
TBA—Tuba
TPT—Trumpet
TRB—Trombone
VCL—Cello
VLA—Viola
VLN—Violin
101-402 Private instruction in minor performance area (1)
111-412 Private instruction in major performance area (2)
141-442 Private instruction in advanced performance area, B.Mus. Program (3)
AIM 311 Marching Band Techniques (1) A survey of the function of the total marching band and of each component within it.
AJZ 361 Jazz Musicianship and Improvisation I (3) A basic course in jazz improvisation which emphasizes the learning and discovery of improvisational techniques through playing and listening.
AJZ 362 Jazz Musicianship and Improvisation II (3) A continuation of AJZ 361.
AJZ 365 Jazz Ensemble Techniques (1) Techniques and methods for organizing, rehearsing, programming and operating jazz ensembles.
♦AIM 429 Special Subjects Seminar—Instrumental (1-2-3) Topics in the area of instrumental music presented by faculty members and/or visiting specialists.
AJZ 321 Recording Techniques (2) A study of the technology of the modern recording sound studio.
AJZ 331 Electronic Instruments (2) A study of the MIDI implementation of synthesizers, samplers, sequencers, signal processors and rhythm processors as related to real time performance.
ALC A Literature Class An historical survey of the music written for instrumental solo and ensemble including current teaching materials.
ALC 311 Brass Literature (3)
ALC 336 Guitar Literature (1)
ALC 331 String Literature (3)
ALC 341 Woodwind Literature (3)
AMC A Master Class Solo and ensemble instrumental repertoire is performed and critiqued by the teacher and students.
AMC 311-314 Master Class Brass (1)
AMC 321-324 Master Class Percussion (1)
AMC 331-334 Master Class Strings (1)
AMC 341-344 Master Class Woodwinds (1)
ACB A Class in Brass at the beginning level.
ACB 191 Trumpet Class (½)
ACB 192 French Horn Class (½)
ACB 193 Trombone Class (½)
ACB 194 Brass Class (½)
ACP A Class in Percussion at the beginning level.
ACP 191 Percussion Class (Drums) (½)
ACP 192 Percussion Class (Mallets) (½)
ACP 193 Drum Set Class (½)
ACS A Class in Strings at the beginning level.
ACS 191 Violin Class I (1)
ACS 192 Violin Class II (1)
ACS 193 Viola Class (½)
ACS 194 Cello Class (½)
ACS 195 Bass Class (½)
ACS 196 Guitar Class (½)
ACW A Class in Woodwinds at the beginning level.
ACW 191 Clarinet Class (½)
ACW 192 Flute Class (½)
ACW 193 Double Reed Class (½)
ACW 194 Woodwind Class (½)

AEB An Ensemble: Band
♦AEB 101 Elementary Band (½)
♦AEB 311 Marching Band (1)
♦AEB 112 Marching Band Front (1)
♦AEB 321 Concert Band (1)
♦AEB 331 Symphonic Band (1)
♦AEB 341 Wind Ensemble (1)

AEO An Ensemble: Orchestra
♦AEO 101 Elementary Orchestra (½)
♦AEO 111 Chamber Orchestra (½)
♦AEO 121 Studio/Pit Orchestra (½)
♦AEO 331 Chamber Orchestra (1)
♦AEO 341 Symphony Orchestra (1)

AES An Ensemble: Small
♦AES 111 Brass Ensemble (½)
♦AES 121 Percussion Ensemble (½)
♦AES 131 String Ensemble
♦AES 141 Woodwind Ensemble (½)
♦AES 151 Jazz Ensemble (Criterions) (½)
♦AES 152 Jazz Ensemble (Combo) (½)

AIC A Class in Instrumental Conducting
AIC 311 Instrumental Conducting I (2)
AIC 312 Instrumental Conducting II (2)
PREREQ: VOC 311 or AIC 311

♦ This course may be taken again for credit.

Department of Keyboard Music

Jacques Voois, *Chairperson*

FACULTY: Aliferis, Bedford, Fields, Lucas, Pandel, Pennington, Schick, Veleta, Whitten, Wilkinson

COURSE DESCRIPTIONS
DEPARTMENT OF KEYBOARD MUSIC
NUMBERING SYSTEM

Private and class lessons given by the Department of Keyboard Music are shown by the following numbers, together with the appropriate prefix: HAR—Harpsichord, PIA—Piano, ORG—Organ

191-192 Class instruction in minor performance area (1)

♦100 Private elective instruction (1)

101-402 Private instruction in minor performance area (1)

103-104 Private instruction in minor performance area, B. Mus. in history program (1)

105-106 Private instruction in minor performance area, elementary education students with a concentration in music (1)

107-109 Private instruction in a major performance area, elementary education students with a concentration in music (1)

111-412 Private instruction in major performance area, Music Education program (2)

413 Elective credit for senior recital, accompanying, or other participation in concerts or recitals, or extra study of literature. Available to music education seniors only during the non-student-teaching semester by permission of the department (1)

141-442 Private instruction in advanced performance area, B.Mus. program (3)

PIA 403 Harpsichord and Continuo Realization (1) An introduction to harpsichord playing and the principles of continuo accompaniment as a Baroque style.

MAK 311-314 Master Class (Keyboard) (1) For keyboard majors. Experience in performing memorized literature. Class members also play two-piano compositions and ensemble music for piano and other instruments.

ORG 351 Organ Literature I (3) A survey of literature for the organ from the 13th century to the Baroque period, influence of the organ on the literature.

ORG 352 Organ Literature II (3) A survey of literature for the organ from J S. Bach to the present; influence of the organ on the literature. Recordings and performances by organ majors will be evaluated.

ORG 451 Accompanying (3) Performance of the vocal and instrumental accompanying literature for organ from all periods; performance and reading sessions.

ORG 452 Service Playing (3) A study of problems in service playing for the organist. Included will be hymn accompaniment, improvisation, conducting from the organ and literature for the service.

♦PIA 213 Studio Lessons in Accompanying (1) Studio instruction in accompanying for pianists in any music program.

♦PIA 250 Accompanying, Ensemble, and Sight Reading (1) Class instruction in accompanying, ensembles, and sight reading.

PIA 404 Transposition and Score Reading (2) Emphasizing the needs of the keyboard accompanist, techniques include clef reading, harmonic analysis, interval transposition, solfege steps, and enharmonic changes.

PIA 405 Accompanying—Vocal (3) Performance of the vocal accompanying literature from all periods; performance and reading sessions in class.

PIA 406 Accompanying—Instrumental (3) Performance of the instrumental accompanying literature from all periods; emphasis on the sonata literature; performance and reading sessions in class.

PIA 410 Independent Studies in Keyboard Music (1-3) Special research projects, reports, or readings in keyboard music. Permission of department chairperson required.

PIA 425 Keyboard Literature I (3) A survey of literature for keyboard instruments from the Baroque Period through the late Classical Period. The various styles in solo and ensemble literature are illustrated by recordings and performance by keyboard majors.

PIA 426 Keyboard Literature II (3) A continuation of PIA 425. Performance by keyboard majors and recordings. Literature from the Romantic through the Impressionist Period is studied.

PIA 427 The Concerto (3) A chronological presentation of the development of the piano concerto emphasizing performance practices and problems. PREREQ: MTC 213.

PIA 429 Special Subjects Seminar (1-3) Significant topics presented by faculty members and/or visiting lecturers. Designed to meet the specific needs of undergraduate keyboard majors.

PIA 450 Group Piano Pedagogy I (4) Procedures and materials for group piano instruction from pre-school through beginning levels. Emphasis upon developing musical literacy and creativity through peer learning and group interactions. Includes practicing in group piano instruction.

PIA 451 Group Piano Pedagogy II (4) Procedures and materials for group instruction from the intermediate through advanced levels. Emphasis upon developing comprehensive musicianship through an interwoven study of literature, musical analysis, technique, improvisation, ear training, harmony, transposition and sight reading. Includes practicum in group piano instruction. PREREQ: PIA 450.

PIA 452 Piano Pedagogy I (4) An in-depth study of repertoire and materials available to the studio piano teacher for the beginning and intermediate levels. Discussions of related concerns such as memorization, practice techniques, developing technique through literature, principles of fingering, and sight reading. Includes practicum in individual instruction.

PIA 453 Selected Topics in Piano Pedagogy (4) Further exploration of the goals and objectives of piano study through presentation of selected topics and continued practicum in individual instruction.

♦This course may be taken again for credit.

Department of Music Theory and Composition

James McVoy, *Chairperson*

FACULTY: Gangemi, Nelson, Sullivan, Wilkinson

COURSE DESCRIPTIONS
MUSIC THEORY AND COMPOSITION
Symbol: MTC

110 Fundamentals of Music (3) A study of basic elements of music for those without previous musical experience.

112 Theory of Music I (3) Introduction to music theory, music writing, keyboard harmony. Elements of musical form; binary and ternary

forms. Primary triads and their inversions. Analysis and creative activity.
113 Theory of Music II (3) Supertonic and other secondary triads and their inversions; diatonic seventh chords; modulation; compound ternary, rondo, and variation forms. Analysis and creative activity. PREREQ: 112
114 Aural Activities I (2) Development of basic hearing skills, chiefly through sight singing and dictation activities based upon the subject matter of MTC 112.
115 Aural Activities II (2) Continued development of basic hearing skills. PREREQ: MTC 114.
212 Theory of Music III (3) Diatonic and chromatic seventh chords and their inversions. Modulation. Invention and fugue, sonata-allegro forms. Analysis and creative activity. PREREQ: MTC 113.
213 Theory of Music IV (3) Harmonic and contrapuntal techniques of the 20th century. Form in contemporary music. Analysis and creative activity. PREREQ: MTC 212.
214 Aural Activities III (2) Material of advanced difficulty involving chromatic alteration, foreign modulation, and intricate rhythms. PREREQ: MTC 115.
215 Aural Activities IV (2) Continuation of MTC 214 and activities involving non-tonal music. PREREQ: MTC 214.
261 Fundamentals of Jazz (2) A basic course in jazz theory.
312 Composition I (3) Creative writing in the forms, styles, and media best suited to the capabilities and needs of the student. PREREQ: MTC 212.
313 Composition II (3) Further application of MTC 312, stressing contemporary techniques. PREREQ: MTC 312.
341 Orchestration (3) The orchestra; use of instruments individually and in combination. PREREQ: MTC 212.
342 Musical Form (3) The standard forms of tonal and contemporary music. PREREQ: MTC 212.
344 Counterpoint I (3) The contrapuntal techniques of tonal music. Chorale prelude and invention. PREREQ: MTC 212.
345 Counterpoint II (3) Advanced contrapuntal forms including canon and fugue. PREREQ: MTC 344.
346 Techniques of Early 20th Century Music (3) A study of compositional techniques in representative vocal and instrumental works of the first two decades of the century.
364 Performance Practices in Contemporary Music (3) Technical problems of understanding new notation (e.g. graphic, proportional, multiphonics, microtones, metric modulation, asymmetrical rhythm groupings, prose scores, etc.) and facility in performing scores which include these techniques. PREREQ: MTC 213 or permission of the instructor.
412 Composition III (3) Composition in larger forms. Open to composition majors only. PREREQ: MTC 313.
413 Composition IV (3) Advanced composition involving major projects in a contemporary idiom. PREREQ: MTC 412.
415 Serialism and Atonality (3) Compositional procedures and theoretical concepts in atonal and serial works of Schoenberg, Berg, Webern, Bartok, Stravinsky, and more recent composers. PREREQ: MTC 213.
416 Jazz Practices (2-3) Jazz history, writing, and performance. Survey of basic jazz literature; fundamental techniques in arranging and improvising. PREREQ: MTC 213 or equivalent.
417 Electronic Music (3) Materials and techniques of electronic music and their use in composition. Laboratory experience in the composition of electronic music. PREREQ: MTC 312 or permission of the instructor.
450 Acoustics of Music (3) The study of sound, its production, transmission, and reception. Musical instruments, the acoustics of rooms, and the physical basis of scales.
♦MTC 479 Seminar in Music Theory (3) Special topics seminar designed to meet specific needs of undergraduate music majors.
♦MTC 481 Independent Study (1)
♦MTC 482 Independent Study (2)
♦MTC 483 Independent Study (3)

Department of Vocal and Choral Music

Lois Alt, *Chairperson*

FACULTY: Alt, Chilcote, Dorminy, Friday, Sprenkle, Taylor, Vandever, Wagner, Williams

COURSE DESCRIPTIONS
VOCAL AND CHORAL MUSIC
NUMBERING SYSTEM

Private lessons given by the Department of Vocal and Choral Music are shown by the following numbers, together with this prefix:
VOI-Voice
♦100 Private instruction for non-music majors. Permission of the chairperson required (1)
101-402 Private instruction in minor performance area (1)
111-412 Private instruction in major performance area, Music Education program (2)
141-442 Private instruction in advanced performance area, B.Mus. program (3)
151-452 Private instruction in minor performance area, B.A. Theatre: Musical Theatre (1)
161-462 Private instruction in major performance area, B.A. Theatre (2)
♦CHO 112 University Chorale (1) A chorus presenting a wide selection of choral music for mixed voices.
♦CHO 211 Men's Chorus (1) A chorus presenting the choral literature for male voices. Open to men in all curricula.
♦CHO 212 Women's Chorus (1) A chorus presenting the choral literature for female voices. Open to women in all curricula.
♦CHO 311 Masterworks Chorus (1) A chorus presenting oratorios, masses, and the more difficult mixed chorus literature. Open to students in other curricula through audition.
♦CHO 410 Opera Chorus (1) An elective course devoted to the training of a choral group which participates in opera or operetta productions. May not be used to satisfy choral requirements. Membership by audition.
♦CHO 411 Chamber Choir (1) Small group of singers specializing in the performance of Renaissance/Baroque, sacred, and secular literature. Members chosen by audition.
♦CHO 412 Concert Choir (1) Devoted to acquiring a fine technique in choral singing through the preparation of programs for performance. Membership by audition.
VOC 111 Madrigal Class (1) A survey of madrigal literature through records, tapes, and class performance with emphasis on materials suitable for use in secondary schools. PREREQ: MHL 221 or permission of the instructor. Offered in fall semester of odd numbered years.
♦VOC 112 Performance Preparation I (3) A course designed to teach the student performer how to prepare a dramatic vocal score. PREREQ. MTC 110 or equivalent.
♦VOC 113 Performance Preparation II (3) A continuation of Performance Preparation I with emphasis on advanced literature and interrelative techniques. PREREQ: VOC 112.
VOC 227 Literature of the Musical Theater (3) The literature of the musical theatre from Singspiel to Broadway musical. Changes in style are observed and analyzed.
VOC 311 Choral Conducting I (2) A practical application of conducting and vocal techniques in choral direction through practice in conducting a choral group. Offered in fall semester.
VOC 312 Choral Conducting II (2) Continued development of the conducting techniques with stress on conducting of polyphonic choral music and on the musical styles of the various choral periods. PREREQ: VOC 311. Offered in spring semester.
VOC 329 Art Song (3) Origins and development of the art song.
VOC 411 Master Class (Voice): Baroque Period (1)
VOC 412 Master Class (Voice): German Lied (1)
VOC 413 Master Class (Voice): French Melodie (1)
VOC 414 Master Class (Voice): 20th Century Art Song (1)
VOC 415 English-Italian Diction (3) English, Italian, and Latin diction for singers. Use of phonetics with application to singing of selected songs.

♦This course may be taken again for credit.

VOC 416 French-German Diction (3) French and German diction for singers. Use of phonetics with application to singing of selected songs.

◆VOC 421 Opera Workshop (2) The preparation of a musical production; coaching of scenes, stage movement, and costuming.

◆VOC 424 Musico-Dramatic Production (1-3) Major roles and/or major responsibilities in extended productions. By audition.

VOC 426 Choral Literature (3) The development and performance style of the choral repertoire.

◆VOC 429 Special Subjects Seminar (1-3) Significant topics presented by faculty members and/or visiting lecturers. Designed to meet the specific needs of undergraduate music majors.

◆VOC 436 Vocal-Choral Music Workshop (1-3) Specialized workshops in the area of vocal and/or choral music. Subject to be announced at the time of the offering.

VOI 191 Voice Class (1) Class instruction in a minor performance area. Open to non-music majors with permission of the department chairperson.

VOI 192 Voice Class (1) Continuation of VOI 191. PREREQ: VOI 191.

VOI 413 Elective credit for senior recital. (1) Available to music education seniors only during the non-student-teaching semester by permission of the department.

◆ This course may be taken again for credit.

Special Programs

Francine G. McNairy, *Associate Vice President for Academic Affairs*

Military Science (Army ROTC)

West Chester University students are eligible to participate in the Army Reserve Officers' Training Corps (ROTC) Program through a formal cross-enrollment agreement with the Widener University Department of Military Science. Army ROTC offers University students the opportunity to graduate with a college degree and a commission in the United States Army, Army National Guard, or United States Army Reserve. All Army ROTC classes are conducted on the Widener campus.

The Army ROTC Program consists of a basic course taken during the freshman and sophomore years, and an advanced course taken during junior and senior years. Successful completion of the basic course is required before placement into the advanced course. Students who participated in Junior ROTC in high school or have prior military service may receive placement into the advanced courses determined by the army professor of military science. The basic course requirement may also be satisfied through attendance at a six-week Army ROTC Basic Camp at the end of the sophomore or junior years. Students enrolled in the advanced course receive a stipend of $100 per month. Guaranteed National Guard and Reserve Forces options are also available.

Nursing students who complete the four-year or two-year program, obtain their Nursing degree, and pass their Nursing Board Examinations are commissioned into the Army Nurse Corps.

Two-year and three-year Army ROTC scholarships are available on a competitive basis. These scholarships pay 80% of the student's tuition or $7,000 (whichever is greater) and include payment of certain University fees, a book and school supplies subsidy, and a $100.00 per month stipend (up to $1,000 per year).

Application for two- and three-year Army ROTC scholarships must be submitted early in the spring semester of the freshman or sophomore year (respectively). Applications for attendance at the Army ROTC Basic Camp must be submitted early in the spring semester of the sophomore year.

Military science students also participate in orientation and field training activities as part of the military science curriculum. These activities are explorations of historical, organizational and functional activities of the U.S. Army, conducted in conjunction with the Army Officer Education Program, and are recognized as a part of the process for preparation of cadets for commissioning.

Activities are conducted on and off campus through tours, field trips, laboratory sessions, and practical field applications. Practical field application activities include: marksmanship, land navigation, small boat operations, small units operations, rappelling, skiing, mountaineering, water survival, color guard, drill team, rifle team, organized athletics, and other military skills. Varying degrees of health and body risk are involved in these activities. Participants are required to show proof of personal medical insurance coverage and to sign waivers of liability. The Government of the United States, the State of Pennsylvania, West Chester University, its officers, trustees, employees, agents, or students assume no liability for any injury caused during the above activities.

Individuals not registered in military science courses may participate in these activities if they meet the following additional prerequisities: (1) be a bonafide student, faculty, administrator, or staff member of the University, (2) have the prerequisite level of physical conditioning, and (3) have permission from the program director.

For further information on scholarship and career opportunities contact the assistant professor of military science, Widener University, Chester, PA 19013 (215) 499-4000.

COURSE DESCRIPTIONS
MILITARY SCIENCE
Symbol: MSI

101 Introduction to ROTC 1 (1.5) This introductory course is a study of American military history from the earliest times to present. Other topics include: the organization and history of ROTC; the organization of the Army, military customs, traditions and courtesies; the role of the Army in national security; ethics, and emphasis on the evaluation of military leadership as viewed from the knowledge of the historically tested principles of war. PREREQ: Full-time undergraduate student.

102 Fundamentals of Leadership (1.5) Continued study of the organization and history of ROTC and the evolution of military leadership as reviewed from the knowledge of the historically tested principles of war. PREREQ: Full-time undergraduate student.

201 Methods of Instruction (1.5) Practical approach to methods and techniques of instruction. Includes characteristics and principles of instruction, instructor preparation, speech techniques, use of instructional aids, and instruction evaluation through student presentations. Offered first half of semester. PREREQ. MSI 101 and MSI 102 or approval of professor of military science.

202 Theory and Dynamics of the Organization (1.5) Introductory course covering broad concepts of military science including branches and mission; the structure and functions of the defense establishment; and the military as a profession. PREREQ: MSI 101, 102, 201 or approval of the professor of military science.

301-302 Contemporary Military Principles and Group Dynamics (1.5) (1.5) A study of leadership and management principles and their universality in the military-civilian environment. Examination of traditional and behavioral management concepts, structure, and the interaction of organizations and subsystems. Practical approach to methods and techniques of communication and instruction. PREREQ: Army ROTC advanced course standing or approval of professor of military science.

401-402 Military Organization and Management (1.5) (1.5) A continued study of leadership and management emphasizing applications in military operations; an analysis of staff organizations and procedures; resources allocations; the theory and application of military law; examination of the role of the military structure in the execution of national security policy; and case study investigations of the duties, obligations, and responsibilities of a commissioned officer. PREREQ: Army ROTC advanced course standing or approval of the professor of military science.

Additional Requirements. Students enrolled in the Army ROTC Program are required to complete written communications, human behavior, math reasoning, computer literacy, and military history courses prior to commissioning. Scholarship students are required to take one semester of a foreign language.

Air Force ROTC

West Chester University students are eligible to participate in the Air Force Reserve Officer Training Corps (AFROTC) through a cross-enrollment agreement with Saint Joseph's University. All Aerospace Studies courses will be held on the Saint Joseph's campus. The AFROTC program enables a college student to earn a commission as an Air Force officer while concurrently satisfying requirements for his or her baccalaureate degree.

The program of Aerospace Studies at Saint Joseph's University offers both two-year and four-year curricula leading to a commission as a Second Lieutenant in the Air Force. In the four-year curriculum, a student takes the General Military Course (GMC) during the freshman and sophomore years, attends a four-week summer training program, and then takes the Professional Officer Course (POC) in the junior and senior years. A student is under no contractual obligation to the Air Force until entering the POC or accepting an Air Force scholarship. In the two-year curriculum, a student attends a six-week summer training program and then enters the POC in the junior year. Students opting for the two-year curriculum must apply for acceptance into the POC by the end of the first semester or quarter of their sophomore year.

The subject matter of the freshman and sophomore years is developed from a historical perspective and focuses on the scope, structure, and history of military power with the emphasis on the development of air power. During the junior and senior years, the curriculum concentrates on the concepts and practices of leadership and management, and the role of national security forces in contemporary American society.

In addition to the academic portion of the curricula, each student participates in an hour-and-a-half Leadership Laboratory each week. During this period, the day-to-day skills and working environment of the Air Force are discussed and explained. The leadership lab uses a student organization which allows students to practice leadership and management techniques.

Air Force ROTC offers 2, 2½, 3 and 3½ year scholarships on a competitive basis to qualified applicants. All scholarships cover tuition, lab fees, reimbursement for books, plus $100 tax free monthly stipend. All members of the POC, regardless of scholarship status, receive the $100 tax-free monthly stipend.

For further information on the cross-enrollment program, scholarships, and career opportunities, contact the Professor of Aerospace Studies, AFROTC Det 750, Saint Joseph's University, Philadelphia, Pennsylvania 19131 (215) 660-1190.

COURSE DESCRIPTIONS
AEROSPACE STUDIES

Symbol: AER

101 Air Force Today I (1) Introductory course exploring the military as a profession, including civilian control of the U.S. Armed Forces, function and organization of the U.S. Air Force, organization and operation of U.S. strategic offensive forces.

102 Air Force Today II (1) Introductory course exploring U.S. general purpose and defensive forces including mission and organization of the major U.S. Air Force Commands and separate operating agencies, major functions and conduct of joint service military operations. Discusses air defense, detection systems, close air support and air superiority.

201 Development of Air Power I (1) A study of the development of aerospace power from balloons and dirigibles through the employment of U.S. air power in World War II. The course includes the military theory of aerospace power employment.

202 Development of Air Power II (1) A continuation course studying the employment of U.S. air power in the Korean Conflict, relief missions and civic action programs in the later 1960's, and the war in Southeast Asia. Research is conducted into the military theory of aerospace force employment.

311 Management and Leadership I (1.5) A study of managerial theory, concepts and techniques of decision making, and the basic functions of management with particular emphasis on applications for Air Force officers.

312 Management and Leadership II (1.5) An interdisciplinary approach to leadership which includes the study of human behavior and relationships, motivation, professional ethics and leadership styles. Communication skills are stressed through written and oral assignments.

431 National Security Forces I (1.5) A focus on the Armed Forces as an integral and inseparable element of society. Primary emphasis is placed on the overall national security process and the factors which comprise it. The impact of a nation's military, economic, psychological, and technical components on national security policy is examined. Other topics include major geopolitical hotspots and the origin of arms races.

432 National Security Forces II (1.5) A continuation course studying civil-military relations. Topics include civilian control of the military, conflict control, military professionalism, and military justice. Emphasis is placed on the reciprocal responsibilities of civilians and the military in a democratic society.

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ROBERT CARLSON, *History*

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GEORGE CRESSMAN, *Education*

KATHERINE M. DENWORTH, *Education*

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RUTH FELDMAN, *Psychology*

THOMAS J. FRANCELLA, *Criminal Justice*

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THELMA J. GREENWOOD, *Biology*

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JACK GARDNER HAWTHORNE, *Art*

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CARRIE C. KULP, *Education*

GEORGE L. J. LANGDON, *Geography and Planning*

MURIEL LEACH, *Health and Physical Education*

JACK A. OWENS, *Health and Physical Education*

N. RUTH REED, *Health*

WALTER NATHANIEL RIDLEY, *Education*

B. PAUL ROSS, *Education*

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JOSEPH M. THORSON, *Business Administration*

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SOL WEISS, *Mathematical Sciences*

ARDIS WILLIAMS, *Chemistry*

JAMES J. WRIGHT, *Music Theory and Composition*

EDWIN L. YOUMANS, *Health and Physical Education*

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1985
FRANK GROSSHANS
CHARLES C. SOUFAS, JR.

1986
RICHARD W. FIELDS

1987
MARSHALL J. BECKER
WACLAW SZYMANSKI

1988
CHRISTOPHER BUCKLEY
LARRY A. NELSON

Distinguished Teaching Chairs

1982-1983
FRANK A. SMITH
JANE B. SWAN

Merit Awards

1982-1983
DIANE O. CASAGRANDE
MARY A. KEETZ
JANE E. SHEPPARD
CHARLES H. STUART

1983-1984
ELIZABETH A. GIANGIULIO
KOSTAS MYRSIADES
LOIS WILLIAMS

1984-1985
FRANK E. MILLIMAN
RUTH I. WEIDNER

1986-1987
KOSTAS MYRSIADES
G. WINFIELD FAIRCHILD

1987-1988
WALLACE J. KAHN
STERLING E. MURRAY
ARLENE C. RENGERT

1988-1989
PAMELA HEMPHILL

Distinguished Faculty Awards

1974-1975
THOMAS A. EGAN, *Teaching*
E. RILEY HOLMAN, *Teaching*
MICHAEL A. PEICH, *Teaching*

1975-1976
WALTER E. BUECHELE, JR., *Service*
CARMELA L. CINQUINA, *Service*
PHILLIP B. DONLEY, *Service*
GEORGE W. MAXIM, *Teaching*
EDWARD N. NORRIS, *Service*
PHILIP D. SMITH, JR., *Teaching*
WILLIAM TOROP, *Teaching*

1976-1977
ROBERT E. BYTNAR, *Service*
ANDREW E. DINNIMAN, *Service*
IRENE G. SHUR, *Teaching*
RUSSELL L. STURZEBECKER, *Service*

1977-1978
MARC L. DURAND and ROBERT F. FOERY (Joint Project), *Service*
BERNARD S. OLDSEY, *Service*
GEORGE F. REED, *Teaching*
RICHARD I. WOODRUFF, *Teaching*

1978-1979
ROBERT E. CARLSON, *Service*
JOHN J. TURNER, JR., *Teaching*
C. RALPH VERNO, *Teaching*
ROBERT H. WEISS, *Service*

1979-1980
CAROLYN B. KEEFE, *Teaching*
JOHN A. MANGRAVITE, *Teaching*
PHILIP D. SMITH, JR., *Service*
NORBERT C. SOLDON, *Service*

1980-1981
LOUIS A. CASCIATO, *Teaching*
PHILIP B. RUDNICK, *Service*
FRANK A. SMITH, JR., *Teaching*
JANE B. SWAN, *Teaching*
JOSEPH M. THORSON, *Service*

Index

—A—

Absence Policy, 36
Academic Advising Center, 27
Academic Advising, 34
Academic Calendar, 2
Academic Classification, 34
Academic Development Program, 27
Academic Level Requirements for GSL/PLUS/SLS, 11
Academic Policies, Exemption from, 40
Academic Policies and Procedures, 34-40
Academic Standards, 38
Acceptance Fee, 9
Accounting, Department of, 84
Accreditation, ii
ACT, 6
Adding a Course, 35
Administration, 126
Admission, 6-7
Admissions Staff, 7
Admission to Teacher Education, 103
Adult and Continuing Education, See University College
Advanced Placement Program, 39
Affirmative Action Policy, ii
African-American Studies, See Ethnic Studies
Air Force ROTC, 29, 124
Alcohol and Drug Education, 17
Alumni Association, 25
American Studies Program, 66
Anthropology and Sociology, 44-46
Appeals to Fee and Refund Policies, 9
Application Fee, 9
Application for Admission, 6
Applied Media Technology, See Instructional Media
Armed Services Programs, 29
Armed Services Reserve Officer Candidate Program—(ROC), 29
Army ROTC, 29, 123
Art, Department of, 46-48
Art Collections, 5
Arts and Sciences, College of, 44-83
Associate Degrees, 33-34
Associate of Arts, 33-34
Associate of Science, 34, Also see Health and Instructional Media
Astronomy, See Geology and Astronomy
Athlete Absence Policy, 36-37
Athletic Training, See Physical Education
Athletics, 25
Audit Fee, 9
Auditing Privileges, 36
Awards, See Scholarships and Awards

—B—

Biology, Department of, 49-51
Bookstore, 17
Bus Transportation on Campus, 17-18
Business and Public Affairs, School of, 84-95

—C—

Calendar, Academic, 2
Campus, Description of, 4
Campus Map, 142
Career Planning and Placement Services, 18
Center for Academic Excellence, 27-28
Center of Adult, Evening and Alternative Studies, 28
Center for Business, Industry and Government (CBIG), 28
Center for Community Education, 29
Center for Governmental and Community Affairs, 6
Certification, Admission for, 7
Certification, Teaching, 103-104
Changing Majors, 35
Chemistry, Department of, 51-53
Chemistry-Biology, See Biology, Chemistry, Pre-Medical Program
Chemistry-Geology, See Geology and Astronomy
Childhood Studies and Reading, Department of, 96-98
Children's Center, 18
Class Load, 35
Classification by University Program, 34
Classification of Students, 16
Academic, 34
CLEP, 39-40
Closing, Storm, Policy for, 2
Coaching, See Physical Education
College Level Examination Program (CLEP), 39-40
College Literature, 30
Communication, See Speech Communication and Theatre
Communications Directory, ii
Communicative Disorders, Department of, 105-106
Community Center Fee, 8
Commuters, See Off-Campus Students
Comparative Literature Studies Program, 67-68, See also English
Computer Science, See Mathematics and Computer Science
Computing Services, See Information Services
Continuing Education Programs, See University College
Correspondence Courses Policy, 39
Counseling and Psychological Services Department, 18
Counseling Center, 18
Counselor, Secondary, and Professional Education, Department of, 98-99
Course Audit Fee, 9
Course Prefixes, Guide to, 44
Creative Writing, See English
Credit By Examination, 36
Fee, 9
Criminal Justice, Department of, 84-86
Cumulative Grade Point Average, 37
Required for Graduation, 38
Cut Policy, 36

—D—

Damage Fee, 9
Dance, See Physical Education
Daycare, See Children's Center
Darlington Herbarium, 5
Deadline for Application, 6
Dean's List, 38
Deferred Payment Policy, 8-9
Degree Programs,
Graduate, 29-30
Undergraduate, 42
Degree Requirements, 30-34
See also Individual Program Listings
Dental Hygiene, See Health
Description of the Campus, 4
Dining Accommodations, 17, See also Meals Fee
Directions to the University, 4
Directory Information - Rights to Privacy Act of 1974, 40
Disabled Students, Office of Special Service to, 27
Dismissal, Academic, 38
Distributive Requirements, 31
Double Major, 34
Driver Education, See Physical Education
Dropping a Course, 35
Dual Degrees, 34
Dual Major, 30, See also Second Degree and Double Major

—E—

Early Admission, 6
Early Childhood, See Childhood Studies and Reading
Earth Science, See Geology and Astronomy
Economics, Department of, 86-87
Education, School of, 96-104
Educational Services Fee, 8
Elementary Education, See Childhood Studies and Reading
Emeriti, 137
Engineering, See Physics
English, Department of, 54-57
Enrollment, 3
Environmental Education Program, 99-100
Environmental Health, See Health
Ethnic Studies Program, 68-69
Evening Studies, See University College
Exemption from Academic Policies, 40
Exemption from Finals, 37

—F—

Faculty, 127-138
Faculty Awards, 137-138
Fees and Expenses, 8-9
Film Theory and Criticism, See Comparative Literature
Final Examination, Exemption from, 37
Finance, See Economics
Financial Aid, 10-16
Foreign Culture Clusters, 33

Foreign Language and Culture Requirements, 32-33
Foreign Languages, Department of, 57-61
Foreign Students, Admission of, 7
Former Students, Readmission of, 7
Francis Harvey Green Library, 5
Fraternities, 21
Frederick Douglass Society, 3
French, See Foreign Languages

—G—

GI Bill, 29
General Education Requirements, 31-33
Geography and Planning, Department of, 88-89
German, See Foreign Languages
Geology and Astronomy, Department of, 62-64
Governmental and Community Affairs, Center for, 6
G.P.A., 37
Grade Changes, 37
Grade Reports, 37
Grading System, 37
Graduate Credit for Undergraduates, 36
Graduate Studies, 29-30
Graduation Fee, 9
Graduation Honors, 40
Graduation Requirements, 40
Grants, 12
Greek, See Foreign Languages
Greek Letter Organizations, 21, 22-23
Greek Life, 18
Green Library, 5
Guaranteed Student Loan, See Stafford Loan Program

—H—

Health, Department of, 106-109
Health Sciences, School of, 105-115
Health and Physical Education, See Physical Education
Health Services, 18-19
Health Center Fee, 8
Hebrew, See Foreign Languages
Hispanic-American Studies, See Ethnic Studies
Historical Properties, 5-6
History, Department of, 64-66
History of the University, 3-4
Honor Societies, 23-24
Honors, Graduation, 40
Honors Program, 25-26
Housing,
  Off-Campus, 17
  On-Campus, 17
Housing Deposit, 9
Housing Fee, 8
Housing Refunds, 9
How to Reach West Chester, 4

—I—

Identification Card Fee, 9
Independent Study, 36
Individual Instruction, 36
Infirmary, See Health Services
Information Science, See Mathematics and Computer Science
Information Services, 4-5
Institute for Women, 3
Instructional I Certificate, 104
Instructional II Certificate, 104
Instructional Media, Department of, 100-101
Instrument Rental Fee, 9
Instrumental Music, Department of, 119
Insurance Programs, 19
Intention to Graduate, Required Notice, 40
Interdisciplinary Programs, 66-71
Interdisciplinary Requirement, 32
International Education, 26
Internships, 28
Italian, See Foreign Languages

—J—

Jewish-American Studies, See Ethnic Studies
Journalism, See English
Junior Year Abroad Program, 58, See also International Education

—K—

Keyboard Music, Department of, 120

—L—

Languages, See Foreign Languages
Late Registration Fee, 9
Latin, See Foreign Languages
Latin American Studies Program, 69
Liability Insurance Requirement for Studies in Nursing, 19, 109
Liberal Studies Program, 71-72
Library, Francis Harvey Green, 5
Library, Music, 5
Linguistics Program, 69
Literature, See English
Loans, 12
Location of The University, 4
Lost Key Replacement Fee, 9

—M—

Mail Service, 19
Major, Changing, 35
Majors, See Programs
Management, Department of, 89-90
Map of the Campus, 142
Marketing, Department of, 90-91
Mathematical Sciences, Department of, 72-75
Married Students (Housing), 17
Meal Fee, 8
Meal Plans, See Dining Accommodations
Meal Refunds, 9
Meal, See Dining Accommodations
Media Organizations, Student, 23
Military Science, 123-124
Minor Fields of Study, 34-35
Music, School of, 116-122
Music Education, Department of, 117-118
Music History, Department of, 118-119
Music Theory and Composition, Department of, 120-121
Music Library, 5
Musical Organizations, 21

—N—

National Student Exchange Program, 26
National Teacher Examination, 104
Native-American Studies, See Ethnic Studies
Non-Credit Courses, See University College
Non-Degree Students, 34, See also University College
Non-Discrimination Policy, ii
Notice of Intention to Graduate, 40
Nursing, Department of, 109-110

—O—

Off-Campus Housing, 17
Off-Campus Student Association (OCSA), 17
Off-Campus Students, 16
Office of Off-Campus and Commuter Life, 17
On-Campus Housing, 17
Orientation and Parent Relations, 19, Also see UNI 101 The Student and the University
Outdoor Education, See Physical Education
Overloads, 35
Overnight Guests, 17
Overseas Study, See International Education

—P—

Parent Loan for Undergraduate Students, 12
Parking Decal, See Vehicle Regulations
Parking Fee, 9
Pass-Fail Policy, 35-36
Payment of Fees, 8-9
Peace and Conflict Studies Program, 69-70
Pell Grant, 12
Perkins Loan Program, 12
Philosophy, Department of, 75-76
Philosophy of the University, 3
Physical Education, Department of, 111-115
Physical Education Uniforms, 9
Physical Examinations, 7, 19
Physical Fitness, See Physical Education
Physically Disabled Students, 7
Physics, Department of, 77-78
Placement, 18
Placement Credentials Fee, 9
Planning, See Geography and Planning
Political Science, Department of, 91-94
Political Science/Public Administration Programs, 93-94
Portfolio Assessment Fee, 9
Portuguese, See Foreign Languages
Post Office, See Mail Service
Pre-Engineering, 26-27
Pre-Law, 26
Pre-Medical Program, 26, 78-79
Pre-Theology, 27
Probation, 38
Professional Education Requirement, 98
Professional Organizations, 20-21, 22
Programs, Undergraduate, 42
  Graduate, 29-30
Psychology, Department of, 79-81
Public Administration, 93-94
Public Health, See Health
Public Safety, 19
Publications, Student, 23

—Q—

The QUAD, 23

—R—

Radio Station, See Station WCUR

Reading, See Childhood Studies and Reading
Readmission of Dismissed Students, 38
Readmission of Former Students, 7
Recreation Outdoor Pursuits Education, See Physical Education
Recreational Services, 24-25
Refund Policy, 9
Religion, See Philosophy
Religious Organizations and Places of Worship, 21, 22
Repeating Courses, 39
Requirements for Admission, 6-7
Requirements for Graduation, 40
Residence Life and Housing, 16-17
Resident Credit Requirement, 40
Resident Students, 17
Respiratory Therapy, See Health
Rights to Privacy Act, 40
Robert B. Gordon Natural Area for Environmental Studies, 5
Room and Board, See Housing Fee and Meal Fee
Room Reservation Policy for Reinstated Students, 38
ROTC Programs, 29, 123-124
Russian, See Foreign Languages
Russian Studies Program, 70

—S—

Safety Education, See Physical Education
SAT, 6
Satisfactory Academic Progress for Financial Aid, 10-11
Scholarships and Awards, 12-16
School Health, See Health
Second Degree, 7, 34
Secondary Education, See Counselor, Secondary and Professional Education
Security, See Public Safety
Serpentine, The, 23
Service Organizations, 22
Sexual Harassment Policy, ii
Short Term Emergency Loan, 12
Snow Days, See Storm Closing Policy
Social Studies Program, 101-102
Social Work, Department of, 94-95
Sociology, See Anthropology and Sociology
Sororities, See Greek Letter Organizations
Spanish, See Foreign Languages
Special Collections, See Francis Harvey Green Library
Special Education, Department of, 102-103
Speech and Hearing Clinic, 6
Speech Communication and Theatre, Department of, 81-83
Speech Pathology, See Communicative Disorders
Sports, See Athletics
S.S.I., 19
S.S.I. Fee, 8
Stafford Loan Program, 12
State Grants, 12
Station WCUR, 23
Storm Closing Policy, 2
Structure of the University, 41
Student Absence Policy, 36
Student Activities, 20-25
Student Affairs, 16-25
Student Athlete Absence Policy, 36-37
Student Consumer Rights and Responsibilities, 11-12
Student Governing Organizations, 20, 21-22
Student Government, See S.S.I.
Student Newspaper, See The QUAD
Student Services Incorporated (SSI), 19
Student Services Inc. Fee, 8
Student Standards, 19-20
Student Teaching, 103-104
Study Skills Project, 28
Summer Sessions, 28
Supplemental Education Opportunity Grant, 12
Supplemental Loans for Students, 12
Supplementary General Education Requirements, 32
Sykes Union Building, 20

—T—

Taking Courses Off Campus, 39
Taking Courses Out of Sequence, 35
Teacher Education, Admission to, 103
Teaching Certificates, 104
Teaching Certification Programs, 103-104
Theatre, See Speech Communication and Theatre
Toxicology, See Chemistry
Transfer of Credit, 39
Transfer Students, 6
Transcript Fee, 9
Transcripts, 40
Tuition, 8
Tutoring Center, 27

—U—

Uncollectible Check Policy, 9
Undeclared Major Program, 27
Undergraduate Programs, 42
UNI 101, The Student and the University, 31
United States Marine Corps Platoon Leaders Class, 29
University College, 28-29

—V—

Vehicle Regulations, 19
Veterans' Affairs, 29
Vocal and Choral Music, Department of, 121-122

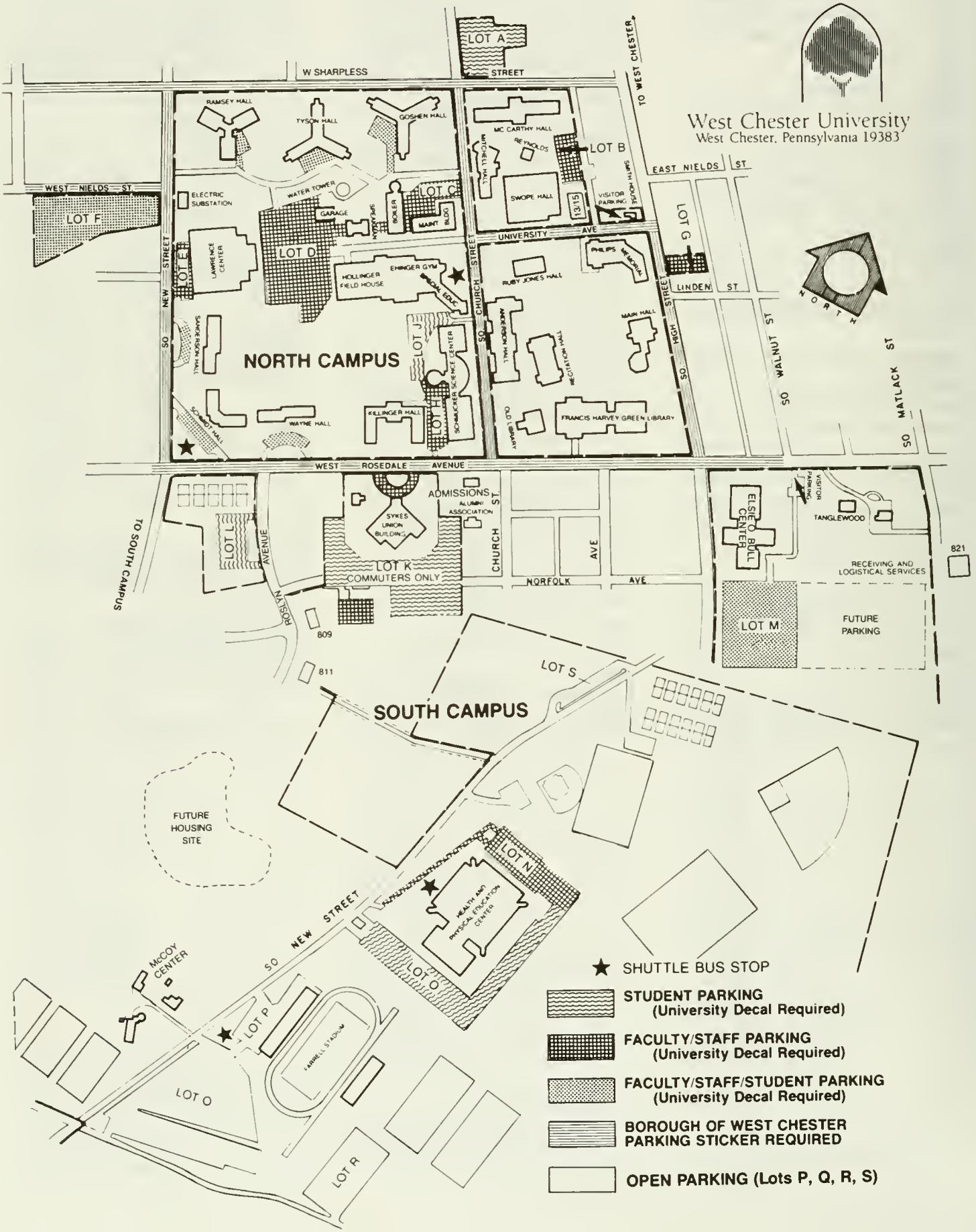
—W—

WCUR, 23
West Chester, How to Reach, 4
Withdrawal/Enrollment Change and Aid, 11
Withdrawal from the University, 35
Women's Center, 20
Women's Studies Program, 70-71
Work Study Program, 12
Writing, See English
Writing Emphasis Courses, 32
Writing Program, 28

—X—Y—Z—

Yearbook, See The Serpentine

Campus Map


West Chester University
West Chester, Pennsylvania 19383
W SHARPLESS
LOT A
STREET
TO WEST CHESTER
RAMSEY HALL
TYSON HALL
GOSHEN HALL
MC CARTHY HALL
REYNOLDS
LOT B
EAST NIELDS ST
WEST NIELDS ST
LOT F
ELECTRIC SUBSTATION
WATER TOWER
GARAGE
LOT C
BOILER
MAINT BLDG
SWOPE HALL
1315
VISITOR PARKING
SMITH HOUSE
LOT G
UNIVERSITY AVE
LOT E
LAWRENCE CENTER
LOT D
HOLLINGER FIELD HOUSE
EMINGER GYM
SO NEW STREET
CHURCH STREET
PHILIPS MEMORIAL
RUBY JONES HALL
LINDEN ST
NORTH
NORTH CAMPUS
LOT J
SCHNADER HALL
SCHNADER SCIENCE CENTER
ANDERSON HALL
MEDITATION HALL
MAIN HALL
HIGH ST
SO WALNUT ST
SO MATLACK ST
SCHMIDT HALL
WAYNE HALL
KELLINGER HALL
LOT H
OLD LIBRARY
FRANCIS HARVEY GREEN LIBRARY
WEST ROSEDALE AVENUE
ADMISSIONS
ALUMNI ASSOCIATION
SYKES UNION BUILDING
LOT K
COMMUTERS ONLY
CHURCH ST
AVE
NORFOLK AVE
ELSIE O. BULL CENTER
VISITOR PARKING
TANGLEWOOD
821
RECEIVING AND LOGISTICAL SERVICES
LOT M
FUTURE PARKING
TO SOUTH CAMPUS
LOT L
AVENUE
ROSLYN
809
811
LOT S
SOUTH CAMPUS
FUTURE HOUSING SITE
LOT N
HEALTH AND PHYSICAL EDUCATION CENTER
LOT O
McCOY CENTER
LOT P
TARBELL STADIUM
LOT Q
LOT R
SHUTTLE BUS STOP
STUDENT PARKING
(University Decal Required)
FACULTY/STAFF PARKING
(University Decal Required)
FACULTY/STAFF/STUDENT PARKING
(University Decal Required)
BOROUGH OF WEST CHESTER
PARKING STICKER REQUIRED
OPEN PARKING (Lots P, Q, R, S)

West Chester University
West Chester, Pennsylvania 19383

THIS SUMMER
come to WEST CHESTER

Undergraduate Courses 1991

CALENDAR AND REGISTRATION INFORMATION
UNDERGRADUATE SUMMER SESSIONS
1991

Scheduling and payment begin April 15 and continue until the termination date given below for each session. In-person and late registration take place in the Elsie O. Bull Center. If necessary, another person may register for you at late registration with written permission from the student who is being registered.

PRE SESSION

Beginning of Scheduling Period	Monday, April 15
Deadline for Mail Scheduling and Payment	Friday, May 17
Deadline for In-person Scheduling and Payment	Friday, May 24
Late-Registration (In-person only) in the Elsie O. Bull Center ($25.00 Late Fee) 2:30 to 4:30 p.m. and 5:30 to 6:30 p.m.	Thursday, May 30
Classes begin 8:00 a.m.	Monday, June 3
Classes end	Friday, June 21

REGULAR SESSION

Beginning of Scheduling Period	Monday, April 15
Deadline for Mail Scheduling and Payment	Friday, June 7
Deadline for In-person Scheduling and Payment	Friday, June 14
Late Registration (In-person only) in the Elsie O. Bull Center ($25.00 Late Fee) 2:30 to 4:30 p.m. and 5:30 to 6:30 p.m.	Thursday, June 20
Classes begin 8:00 a.m.	Monday, June 24
Holidays	Thursday, July 4 Friday, July 5
Classes end	Friday, August 2

POST SESSION

Beginning of Scheduling Period	Monday, April 15
Deadline for Mail Scheduling and Payment	Friday, July 19
Deadline for In-person Scheduling and Payment	Friday, July 26
Late Registration (In-person only) in the Elsie O. Bull Center ($25.00 Late Fee) 1:30 to 3:30 p.m	Thursday, August 1
Classes begin 8:00 a.m.	Monday, August 5
Classes end	Friday, August 23

NOTE

Some courses and workshops do not follow the standard Pre, Regular, Post Session dates. These are noted in the course listings. Students who register for these courses must do so during the scheduling period for the session in which the desired course *begins*.

TELEPHONES AND OFFICE HOURS

Summer Sessions
144 Elsie O. Bull Center
(215) 436-2230
Monday-Friday, 8:00 a.m. - 4:00 p.m.

Registrar
154 Elsie O. Bull Center
(215) 436-3541
Monday - Friday, 8:30 a.m. - 4:00 p.m.
(Through May 10)
Monday - Friday, 8:30 a.m. - 3:30 p.m.
(From May 13)

Office of the Bursar
114 Elsie O. Bull Center
(215) 436-2552
Monday, Tuesday, Thursday, Friday,
8:00 a.m. - 3:30 p.m.
Wednesday, 8:30 a.m. - 3:30 p.m.

APRIL

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

MAY

S	M	T	W	T	F	S
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5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

JUNE

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2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23/30	24	25	26	27	28	29

JULY

S	M	T	W	T	F	S
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7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

AUGUST

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Academic Information

Accreditation

West Chester University is accredited by The Middle States Association of Colleges and Secondary Schools, The National Council for Accreditation of Teacher Education, The National Athletic Training Association, The National Association of Schools of Music, The National League for Nursing, The American Chemical Society, the Commission on Accreditation in Clinical Chemistry, the Joint Review Committee for Respiratory Therapy Education, and the Council on Social Work Education (baccalaureate level). West Chester University has been given program approval by the Department of Education of the Commonwealth of Pennsylvania for the certification of teachers.

How to Register

Enrollment for West Chester University Summer Sessions is a simple process of scheduling and payment which can be completed by mail or in person by meeting the scheduling/payment deadlines given in the Summer Sessions Calendar on the inside front cover. Students may schedule for any or all three summer sessions at the same time. The scheduling/registration process has been completed only when payment has been received by the University.

STUDENTS MUST REGISTER FOR ALL COURSES BY THE REGISTRATION DEADLINES GIVEN FOR THAT PARTICULAR SESSION (PRE, REGULAR, OR POST) IN WHICH THE COURSE BEGINS. THIS PROCEDURE ALSO APPLIES TO COURSES THAT START ON DATES WHICH DIFFER FROM THE THREE SESSIONS' STARTING DATES AND RUN FOR IRREGULAR PERIODS.

Credits

During summer sessions credits are usually earned at the rate of one semester hour of credit for each week of class. A student who attends all three sessions may earn 12 credits.

In-person Registration

The scheduling and payment period begins in April and continues until the scheduling and payment deadlines for each session (see calendar). See the inside front cover for hours University offices are open. Students should allow at least 30 minutes to complete the scheduling process.

Completed forms and payment must be received in the Office of the Bursar prior to the deadlines or the student will be charged a late fee.

Registration Procedure

1. Obtain a scheduling form. If a scheduling information form is not attached to this catalog, you may get one from the Summer Sessions Office, Room 144, Elsie O. Bull Center.
2. Complete the scheduling form. Students from other colleges and high school students must have the signature of an appropriate official.
3. Return the completed scheduling form to the Office of the Registrar for approval.
4. Your scheduling form will be processed by the Office of the Registrar, and a bill will be mailed to you several weeks prior to each session deadline date. The bill that you receive will confirm your registration as well as indicate where your class will be held.

NOTE

It is possible to change a course in the Office of the Registrar before the in-person scheduling deadline for a particular session. After that, no course changes may be made until the first day of classes.

Mail Registration

To schedule by mail, call the Summer Sessions Office at 436-2230, and you will be sent the requested information. After returning the scheduling card to the Office of the Registrar, by mail or in person, you will receive a bill in the mail which should be returned with payment to the Office of the Bursar, 114 Elsie O. Bull Center by mail or in person, by the deadline dates of each session.

REMEMBER: Your bill confirms your registration and indicates where your class will be held.

Late Registration

Late registration and payment take place in the Office of the Registrar, 154 Elsie O. Bull Center, at the corner of High Street and Rosedale Avenue. (There is a $25.00 late fee.) See inside front cover for dates.

Course Changes

Course changes are made in the Office of the Registrar during the drop/add period.

After the deadline dates for mail and in-person registration, the drop/add periods are the following:

Pre Session: June 3, 1991
Regular Session: June 24 and 25, 1991
Post Session: August 5, 1991

Course changes may also be made before the scheduling deadline of a session.

Course Descriptions

A separate booklet is available in the Office of Summer Sessions for students who need course descriptions.

Dropping a Course

During the drop/add period of each session, a student may drop a course, thereby receiving no grade, by filing a schedule change form in the Office of the Registrar during the drop/add period.

A grade of "W" will be entered on the academic record of any student who drops a course between June 4-7 for Pre Session, June 26-July 8 for Regular Session, and August 6-9 for Post Session.

Students may drop a course June 10-14 for Pre Session, July 9-19 for Regular Session, and August 12-16 for Post Session and receive a grade of WP or WF from their instructor, only if they have a compelling special reason or emergency.

A student who is doing passing work at the time of approved withdrawal receives a WP, which is not treated as a grade. A student who is failing receives a WF, computed as an F.

After the end of the WP/WF period, students will receive whatever grade the professor assigns (excluding WF, WP) but are not entitled to selectively withdraw from particular classes. **STUDENTS WHO STOP ATTENDING CLASS AND FAIL TO DROP A COURSE OFFICIALLY CAN EXPECT TO RECEIVE A GRADE OF "F" FOR THE COURSE.**

Refer to "Fees and Expenses" for the refund policy and procedure.

Summer Graduation

Students who expect to graduate in August, at the end of the summer sessions, should have come to the Office of the Registrar and filed a Graduation

- Application by February 1, 1991. August graduates may participate in the May Commencement exercises if they file their notice of intention to graduate by that date.

University Regulations and Policies

The same regulations for student procedure and conduct that are in effect during the academic year are also in effect during summer sessions. Deadlines are adjusted accordingly.

Academic policies can be found in the Undergraduate Catalog.

Summer School Overload Policy

The normal student load for summer sessions is three hours for Pre Session, six hours for Regular Session, and three hours for Post Session. Any exceptions to this rule must be approved by the chairperson of the department in which the student is majoring and the associate vice-president for academic affairs.

A student will not be allowed to enroll in more than 15 hours in any one summer nor be allowed more than one additional course per session. A student should not seek permission to carry an overload if his or her cumulative average is below 2.75. Exceptional situations will be reviewed by the associate vice president for academic affairs.

Important Notes

- The times and days of classes are subject to change.
- Each summer session offering is contingent upon adequate enrollment in the judgment of University administration.
- The catalog is not to be regarded as an irrevocable contract between the student and West Chester University.
- Admission to a summer session does not imply admission for the academic year.
- Students may have other persons register for them with written permission from the student who is being registered.
- Mail completed undergraduate summer school registration materials to:

  Office of the Registrar
  154 E.O. Bull Center
  West Chester University
  West Chester, PA 19383

- Students who require course descriptions for approval to transfer course credit should contact the Office of Summer Sessions (215) 436-2230. Course descriptions are also available from the departments offering the courses. (See inside back cover for listing.)
- West Chester University students who have already preregistered for a course for the *fall semester* and now have decided to take the course in summer school are requested to drop the *fall* course during the summer in the Office of the Registrar in the Elsie O. Bull Center. This process will permit other students to schedule for the new openings in the *fall* courses.

General Information

About the University

West Chester University's 388-acre campus provides students with modern classrooms and laboratories, an excellent library and comfortable residence halls. The University is within walking distance of downtown West Chester and public transportation into Philadelphia.

During the regular academic year, West Chester University enrolls some 10,000 students in its undergraduate programs and over 2,000 students in graduate programs. Students may pursue associate, baccalaureate, and master's degrees as well as enroll in a number of certification and other nondegree programs.

Housing

Housing on campus is available to summer students during the session(s) they are registered for classes. The summer residence hall is conveniently located near both Lawrence Center, which houses the dining hall, post office, and many support offices, and Sykes Union Building, housing the bookstore, game room, Ram's Head Deli, and student services offices.

To apply for housing, call or write

Office of Residence Life and Housing
206 Sykes Union Building
West Chester University
West Chester, PA 19383
(215) 436-3307

Applications should be received at least two weeks prior to the beginning of the session for which housing is desired. Summer residents must be on the meal plan during their stay in the residence hall. Rules and regulations as outlined in the current edition of the Guide to Residence Hall Living and in effect during the regular academic year will also apply to summer sessions.

Student Services

Summer students at West Chester University have available the same full range of services provided during the academic year.

The **Career Development Center**, which provides career planning and placement services, is located on the second floor of Lawrence Center. For more information, call 436-2501.

The **Children's Center** provides care for children ages 3-6 during class time for Pre and Regular Sessions. Summer hours are based on enrollments and space availability. Further information is available in McCarthy Hall or by calling (215) 436-2388.

The **Counseling Center**, staffed by licensed psychologists, offers individual counseling for personal problem solving and other counseling services on a confidential basis. Students may come to the second floor of Lawrence Center or call 436-2301.

Financial Aid is available to summer students in the form of work-study employment, student loans and student grants. Students may come to room 139, Elsie O. Bull Center or call 436-2627.

The **University Health Center** provides first-aid and routine treatment of minor illnesses. Located in Ramsey Hall basement, the office is open Monday through Friday from 8:00 a.m. to midnight. Summer students may take advantage of a group accident and health policy, approved by the University, which covers them for the 12 weeks of summer sessions. Call the University Health Center, 436-2509, for information. Students enrolled during the Regular Summer Session are charged a $5.00 health service fee; the fee for Pre and Post Sessions is $3.00.

Recreational Services provides organized recreational activities for summer students and offers rental and loan of equipment for student use. There are trips scheduled to area points of interest as well as on-campus activities such as softball and volleyball.

Campus facilities, including the gymnasiums, pools, and tennis courts, are open for informal recreational use. For additional information, call 436-2133.

Parking

All University parking lots are open to parking during summer sessions. Parking decals are not required.

Fees and Expenses

Special Notes:

- The fees listed below reflect charges as of the Spring Semester, 1991.
- For up-to-date information, contact the Office of the Bursar (215) 436-2552.
- FEES ARE SUBJECT TO CHANGE WITHOUT NOTICE.
- Each summer session offering is contingent upon adequate enrollment in the judgment of University administration.
- All charges for a session must be paid by deadline payment dates or a late fee of $25.00 will be incurred.
- Unless specified otherwise, fees are paid by check, MasterCard, VISA, or money order payable to: West Chester University. Your check or money order serves as your receipt.
- There is no payment plan in summer.

Basic Fee

Pennsylvania Residents
$95.00 per semester hour of credit.

Non-Pennsylvania Residents
$180.00 per semester hour of credit.

Housing Fees

(SUBJECT TO CHANGE WITHOUT NOTICE)

Pre or Post Session	
Room and 19 Meals	$312.00
Room and 10 Meals	$300.00
Extra Fee for Private Room*	$102.00
Regular Session	
Room and 19 Meals	$624.00
Room and 10 Meals	$600.00
Extra Fee for Private Room*	$204.00
19 Meal Plan	
Breakfast, Lunch, Dinner	Mon-Fri
Brunch, Dinner	Sat-Sun
10 Meal Plan	
Any 10 meals	Mon-Fri

There is no reduction in cost for partial weeks or unused meals.

*Private rooms are available as space permits.

Educational Service Fee

$5.00 per each summer semester.

Health Center Fee

$3.00 Pre and Post
$5.00 Regular

Late Fee

A $25.00 late fee is charged to all students (1) who fail to schedule prior to the scheduling deadline for a session and fail to pay by the designated deadline for the session (those who both schedule and pay late) and (2) who schedule properly but fail to pay by the designated deadline for the session (those who schedule on time but pay late).

See the Summer Sessions Calendar for scheduling deadlines and late registration days.

Community Center Fee

$1.00	Pre and Post Sessions
$2.00	Regular Session

Dishonored Check Fee

A fee of $25.00 is charged to accounts if a check is returned for any reason.

Refunds

All refund requests must be made in writing during the appropriate session. Contact the Office of the Registrar, 154 Elsie O. Bull Center.

Prior to and including the day of late registration for each session (Pre, Regular, and Post), students who completely withdraw for that session are entitled to a full refund.

Once classes begin, the following schedule is in effect:

Pre and Post Sessions		
Days 1 and 2	=	80% refund
Day 3	=	70% refund
Day 4	=	60% refund
Day 5	=	50% refund
Day 6 and thereafter	=	NO REFUND
Regular Session		
Day 1 - 4	=	80% refund
Day 5 and 6	=	70% refund
Day 7 and 8	=	60% refund
Day 9 and 10	=	50% refund
Day 11 and thereafter	=	NO REFUND

Formula

During Pre and Post Sessions - 1 Day = 1 week of semester

During Regular Session - 2 Days = 1 week of semester

Summer Course Offerings

Explanation of Course Designations

The courses in this catalog are identified in three parts: abbreviation, course number and section number.

Key to Section Numbers:

	Abr.	Num.	Sec.
Pre Session—20 series	ART	101	21
Regular Session—30 series	ART	101	31
Post Session—40 series	ART	101	41

Semester hours of credit are shown in parentheses.

Room numbers (if available) follow the number of credits.

Attributes (special conditions) are indicated by abbreviations shown in the key below.

Building codes are shown after the key.

Course descriptions are in a separate supplement available in the Summer Sessions Office.

Workshop descriptions begin on page 15 of this catalog.

For additional information, consult the appropriate department. For telephone numbers, see list at the back of this catalog.

Key

C	Combined Course
*	Meets General Education Requirements
W	Writing Emphasis
$	Additional Fee Required
M	Majors Only
P	Permission of Instructor
I	Interdisciplinary
L	Individualized Learning System

Building Codes

A	Anderson Hall
B	Elsie O. Bull Center
BG	Bull Center Ground Floor
C	Schmucker Science Center
D	Lawrence Center
E	Special Education Building
EXTN	Exton Campus
EGH	Ehinger Gym
F	Fine Arts Bldg. (Mitchell Hall)
G	Old Library
H	South Campus Field House
J	Ruby Jones Hall
JG	Ruby Jones Hall Ground Floor
K	Hollinger Field House
LA	Francis Green Library
LB	Francis Green Library
M	Main Hall
MF	McCoy Farm (South Campus)
OCL	Off-Campus Location (Contact Dept.)
PML	Philips Memorial Library
PMB	Philips Memorial Ballroom
R	Recitation Hall
S	Swope Hall (Music Building)
SAU	Swope Auditorium
SIN	Swope Instrumental Room
TBA	To Be Announced
UPDY	Upper Darby Campus
W	Wayne Hall

Pre Session Offerings

Monday, June 3 through Friday, June 21.
Unless noted otherwise, classes meet Monday through Friday.

ACCOUNTING

8-12
ACC 201 21 PRINCIPLES OF ACCOUNTING I
(3.0) M 302
ACC 202 21 PRINCIPLES OF ACCOUNTING II
(3.0) M 400
ACC 301 21 INTERMEDIATE ACCOUNTING I
(3.0) M 415
ACC 403 21 FEDERAL TAXATION I
(3.0) M 414

6-9:30P
ACC 201 22 PRINCIPLES OF ACCOUNTING I
June 3 thru July 12.
Monday-Wednesday M 400
(3.0)
ACC 202 22 PRINCIPLES OF ACCOUNTING II
June 3 thru July 12.
Tuesday-Thursday M 400
(3.0)
ACC 303 21 COST ACCOUNTING I
June 3 thru July 12.
Monday-Wednesday M 215
(3.0)
ACC 401 21 AUDITING
June 3 thru July 12.
Tuesday-Thursday M 215
(3.0)

ANTHROPOLOGY

See SOCIOLOGY for Sociology courses

6-9:30P
ANT 102 21 INTRODUCTION TO ANTHROPOLOGY: CULTURAL
Monday Thru Thursday G 202
(3.0) - *W

ART

8-12
ARH 101 21 LEARNING TO LOOK: FINE ARTS, ART
(3.0) F 201 - *
ART 105 21 ART WORKSHOP
(3.0) F 111 - *O
ART 106 21 BEGINNING DRAWING
(3.0) F 111 - *P

BIOLOGY

Internship in Biological Science (BIO409 Special Problems in Biology (BIO491) are available by arrangement with the Biology department

8-11
BIO 204 21 INTRODUCTORY MICROBIOLOGY
Lab, M-F 11-1.
(4.0) C 217

8-12
BIO 102 21 HUMANS & THE ENVIRONMENT
(3.0) C 205 - *I
BIO 259 21 HUMAN ANATOMY & PHYSIOLOGY I
Lab, MT 1-3.
(4.0) C 317

8-12:30
BIO 100 21 BASIC BIOLOGICAL SCIENCE
Lab included.
(3.0) C 100 - *
BIO 100 22 BASIC BIOLOGICAL SCIENCE
Lab included.
(3.0) C 309 - *

CHEMISTRY

TBA
CHE 410 21 ADVANCED INDEPENDENT STUDY OR RESEARCH
(3.0) TBA
CHE 450 21 INTERNSHIP IN CHEMISTRY
(3.0) TBA - P
CHE 450 22 INTERNSHIP IN CHEMISTRY
(5.0) TBA - P

8-10
CHE 103 21 GENERAL CHEMISTRY I
General Ed when followed by CHE104.
June 3 thru July 5.
(3.0) C 160 - *

8-10:30
CHE 231 21 ORGANIC CHEMISTRY I
June 3 thru July 5.
(4.0) C 130

8-12
CHE 100 21 CONCEPTS OF CHEMISTRY
Lab included.
(3.0) C 151 - *

10-12
CHE 230 21 INTRODUCTION TO ORGANIC & BIOLOGICAL CHEMISTRY
June 3 thru July 5.
(3.0) C 160

12-4P
CRL 103 21 EXPERIMENTAL GENERAL CHEMISTRY I (LAB)
June 4 thru July 3.
Tuesday Thru Thursday C 340
(2.0)
CRL 232 21 EXPERIMENTAL ORGANIC CHEMISTRY I LAB
June 3 thru June 27
Monday Thru Thursday C 361
(2.0)
CRL 321 21 ANALYTICAL CHEMISTRY I LAB
June 4 thru July 3.
Tuesday Thru Thursday C 140
(2.0)

5-7:30P
CHE 103 22 GENERAL CHEMISTRY I
June 3 thru July 3.
Monday Thru Thursday C 130
(3.0) - *
CHE 321 21 ANALYTICAL CHEMISTRY I
June 3 thru July 3.
Monday Thru Thursday C 160
(3.0)

CHILDHOOD STUDIES AND READING

8-12
EDE 251 21 CHILD DEVELOPMENT & BEHAVIOR
(3.0) R 102
EDE 311 21 INTRODUCTION TO READING INSTRUCTION
(3.0) R 101
EDE 332 21 TEACHING SOCIAL STUDIES IN ELEM SCHOOL
(3.0) R 103

4:30-8P
EDE 406 21 CLASSROOM MANAGEMENT
Monday Thru Thursday R 307
(3.0)
EDE 422 21 SEMINAR IN READING
Monday Thru Thursday R 301
(3.0) - P

6-9:30P
ECE 405 21 ADMIN. & SUPERVISION OF EARLY CHILDHOOD
Monday Thru Thursday R 103
(3.0) - MW

COMMUNICATIVE DISORDERS

8-12
SPP 101 21 INTRODUCTION TO COMMUNICATIVE DISORDERS
Required for incoming transfer students. Without it, graduation can be delayed by up to 1 year.
(3.0) WA 200

COUNSELOR, SECONDARY AND PROFESSIONAL EDUCATION

8-12
EDP 250 21 EDUCATIONAL PSYCHOLOGY
(3.0) R 211

EDP 250 22 EDUCATIONAL PSYCHOLOGY
(3.0) R 205

EDP 351 21 EVALUATION & MEASUREMENT
(3.0) R 204 - P

EDP 351 22 EVALUATION & MEASUREMENT
(3.0) R 104 - P

1-4P
EDF 100 21 SCHOOL & SOCIETY
(3.0) R 204

4-7P
EDS 306 21 TCHNG PRINCIPLES & FIELD EXPER IN SECOND
(3.0) PM007B - P

CRIMINAL JUSTICE

TBA
CRJ 490 21 PRACTICUM
(3.0) TBA - MW

CRJ 490 22 PRACTICUM
(3.0) TBA - MW

CRJ 490 23 PRACTICUM
(3.0) TBA - MW

CRJ 490 24 PRACTICUM
(3.0) TBA - MW

CRJ 490 25 PRACTICUM
(3.0) TBA - MW

8-12
CRJ 340 21 VICTIMLESS CRIMES
(3.0) J 202

ECONOMICS

TBA
ECO 411 21 INTERNSHIP
Approval of Dept. Chair required.
(3.0) TBA

8-12
ECO 111 21 PRINCIPLES OF ECONOMICS (MACRO)
General Ed. when followed by ECO112.
(3.0) M 403 - *

ECO 112 21 PRINCIPLES OF ECONOMICS (MICRO)
General Ed. when preceded by ECO111.
(3.0) E 102 - *

ECO 335 21 MONEY & BANKING
(3.0) C 232

9:30-10:45
ECO 251 21 QUANTITATIVE BUSINESS ANALYSIS I
June 3 thru July 10.
Monday-Wednesday BG014
(3.0)

6-10P
FIN 325 21 CORPORATION FINANCE
Monday Thru Thursday M 402
(3.0)

6:30-10P
ECO 251 22 QUANTITATIVE BUSINESS ANALYSIS I
June 3 thru July 10.
Tuesday-Thursday C 232
(3.0)

ENGLISH

8-12
LIT 165 21 INTRODUCTION TO LITERATURE
(3.0) M 201 - *W

LIT 200 21 AMERICAN LITERATURE I
(3.0) M 212 - W

LIT 230 21 ENGLISH LITERATURE I
(3.0) M 213 - W

FOREIGN LANGUAGES

8-9:45
FRE 201 21 INTERMEDIATE FRENCH I (TRADITIONAL)
June 3 thru July 5.
(3.0) M 315

SPA 201 21 INTERMEDIATE SPANISH I
June 3 thru July 5.
(3.0) M 316

10-11:45
FRE 101 21 ELEMENTARY FRENCH I (TRADITIONAL)
June 3 thru July 5.
(3.0) M 315

SPA 101 21 ELEMENTARY SPANISH I
June 3 thru July 5.
(3.0) M 316

6P-9P
EGE 222 21 GERMAN CIVILIZATION (IN ENGLISH)
Monday Thru Thursday M 316
(3.0) - *FI

ERU 209 21 SOVIET RUSSIAN CULTURE (IN ENGLISH)
Monday Thru Thursday M 415
(3.0) - *FI

ESP 222 21 LATIN-AMER CULT & CIVILIZ (IN ENGLISH)
Monday Thru Thursday M 315
(3.0) - *FI

GEOGRAPHY AND PLANNING

TBA
GEO 415 21 INTERNSHIP IN GEOGRAPHY & PLANNING
Instructor permission only.
(3.0) TBA

8-12
GEO 103 21 HUMAN GEOGRAPHY
(3.0) J 102 - *

GEO 204 21 INTRODUCTION TO URBAN STUDIES
(3.0) JG001 - *I

6-10P
GEO 101 21 WORLD GEOGRAPHY
Monday Thru Thursday J 102
(3.0) - *

GEOLOGY AND ASTRONOMY

TBA
ESS 460 21 INTERNSHIP
Must contact Dr. Wiswall.
(1.0) TBA

ESS 460 22 INTERNSHIP
Must contact Dr. Wiswall.
(2.0) TBA

ESS 460 23 INTERNSHIP
Must contact Dr. Wiswall.
(3.0) TBA

8-12
ESS 101 21 INTRODUCTION TO GEOLOGY
(3.0) C 050 - *

9-1
ESS 111 21 GENERAL ASTRONOMY
(3.0) C 120 - *

6-9:30P
ESS 101 22 INTRODUCTION TO GEOLOGY
Monday Thru Thursday C 050
(3.0) - *

ESS 111 22 GENERAL ASTRONOMY
Monday Thru Thursday C 186
(3.0) - *

ESS 330 21 INTRODUCTION TO OCEANOGRAPHY
Monday Thru Thursday C 053
(3.0)

SCE 310 21 SCIENCE FOR THE ELEMENTARY GRADES
Must reach Junior status by end of Spring 1991.
Monday Thru Thursday C 151
(3.0)

HEALTH

TBA
HEA 258 21 ASPECTS OF RESPIRATORY THERAPY II
(2.0) OCL

HEA 264 21 CLINICAL PRACTICE IV
(5.0) OCL

HEA 421 21 PUBLIC HEALTH INTERNSHIP
(3.0) OCL

HEA 456 21 ENVIRONMENTAL HEALTH INTERNSHIP
(3.0) OCL

8-4:30
HEA 100 21 DIMENSIONS OF WELLNESS
June 3 thru June 7.
(3.0) H 328 - *

HEA 100 22 DIMENSIONS OF WELLNESS
June 3 thru June 7.
(3.0) H 329 - *

HEA 435 21 HEALTH WORKSHOP
See workshop description.
June 5 thru June 11.
Aging and long-term care.
(3.0) H 326 - O

9-12
HEA 435 22 HEALTH WORKSHOP
See workshop description.
Eating and living.
(3.0) H 331 - O

5-8:30P
HEA 103 21 ADDICTIVES
Monday Thru Thursday H 328
(3.0)

HEA 201 21 HEALTH EDUCATION I
Monday Thru Thursday H 327
(3.0)

6-9:30P
HEA 410 21 MENTAL HEALTH
Monday Thru Thursday H 326
(3.0)

HISTORY

Independent Studies in History (HIS490), in History (HIS450) and Field Studies in (HIS460) may be scheduled with the permission of the chairperson.

8-12
AMS 200 21 AMERICAN CIVILIZATION
(3.0) M 314 - *1
HIS 100 21 MAINSTREAMS IN HISTORY
(3.0) M 303 - *
HIS 100 22 MAINSTREAMS IN HISTORY
(3.0) M 313 - *
HIS 362 21 VIOLENCE IN AMERICA
(3.0) R102A - W

INSTRUCTIONAL MEDIA

8-12
EDM 300 21 INTRODUCTION TO INSTRUCTIONAL COMMUNICAT
(3.0) R302C

6-9:30P
EDM 405 21 THEORY OF MOTION PICTURE PRODUCTION
Monday Thru Thursday R302C
(3.0) - *

MANAGEMENT

8-12
MGT 301 21 PRINCIPLES OF MANAGEMENT
(3.0) F 200
MGT 405 21 BUSINESS POLICY & STRATEGY
(3.0) F 206 - W

6-9:30P
MIS 200 21 INTRODUCTION TO MANAGEMENT INFO SYSTEMS
Monday Thru Thursday F 200
(3.0)

MARKETING

8-12
MKT 321 21 SALESMANSHIP
(3.0) C 260
MKT 327 21 MARKETING MANAGEMENT
(3.0) C 312
MKT 450 21 MARKETING INTERNSHIP
(3.0) TBA

6-9:45P
BLA 201 21 AMERICAN LEGAL SYSTEM
Monday Thru Thursday C 317
(3.0)

MATHEMATICS AND COMPUTER SCIENCE

TBA
CSC 300 21 COOPERATIVE PROGRAMMING
Permission of Mr Edelman.
(4.0) TBA

8-9:40/M-F 10:30
MAT 161 21 CALCULUS I
(4 0) G 203 - *

8-12
CSC 101 21 INTRODUCTION TO COMPUTERS
(3.0) LB 313 - *
CSC 101 22 INTRODUCTION TO COMPUTERS
(3.0) LB 314 - *
MAT 000 21 FUNDAMENTALS OF ALGEBRA
(3.0) PM007A
MAT 101 21 MATHEMATICS FOR ELEMENTARY TEACHERS I
(3 0) PM007B - *
MAT 103 21 INTRODUCTION TO MATHEMATICS
(3 0) PM007C - *
MAT 105 21 COLLEGE ALGEBRA & TRIGONOMETRY
(3 0) H116A - *
MAT 107 21 COLLEGE ALGEBRA
(3.0) H116B - *
MAT 351 21 TEACHING MATHEMATICS IN ELEM SCHOOL I
(3 0) H 108
MAT 401 21 HISTORY OF MATHEMATICS
(3.0) BG010

6-9:45P
CSC 101 23 INTRODUCTION TO COMPUTERS
Monday Thru Thursday LB 313
(3.0) - *
CSC 101 24 INTRODUCTION TO COMPUTERS
Monday Thru Thursday LB 314
(3.0) - *
CSC 350 21 COMPUTERS IN EDUCATION
Monday Thru Thursday H116A
(3.0)

MUSIC: EDUCATION

8-12
MUE 231 21 MUSIC FOR THE CLASSROOM TEACHER
(3.0) S 003 - *

NURSING

8-12
NSG 109 21 HEALTH ISSUES OF WOMEN
Monday Thru Thursday E 101
(3.0)

PHILOSOPHY

8-12
PHI 101 21 INTRODUCTION TO PHILOSOPHY
(3.0) M 401 - *
PHI 174 21 PRINCIPLES OF THE ARTS
(3.0) M 402 - *1

6-9:30P
PHI 101 22 INTRODUCTION TO PHILOSOPHY
Monday Thru Thursday M 401
(3.0) - *

PHYSICAL EDUCATION

TBA
PED 435 21 PHYSICAL FITNESS SPECIALIST INTERNSHIP
Off-campus location.
(3.0) OCL - P
PED 491 21 INTERNSHIP
Off-campus location.
(3.0) OCL - P

8-11
PED 141 21 FUNDAMENTAL MOVEMENT
(1.0) GYM 3
PED 310 21 PREP FOR TCHG SECONDARY PHYS ED
(2 0) H 325

8-3
PED 410 21 THERAPEUT MODALITIES FOR ATHLET TRAINING
June 3 thru August 2.
(3.0) H 226
PED 411 21 THERAPEUTIC EXERCISE FOR ATHLET TRAINING
June 3 thru August 2.
(3.0) H 226
PED 412 21 PATHOLOGY FOR ATHLETIC TRAINING
June 3 thru August 2.
(3.0) H 226
PED 413 21 ATHLETIC INJURY/ILLNESS EVALUATION
June 3 thru August 2.
(2.0) H 227
PEL 410 21 THERAPEUT MODALITIES (ATHLET TNG) LAB
June 3 thru August 2.
(1.0) H 225
PEL 410 22 THERAPEUT MODALITIES (ATHLET TNG) LAB
June 3 thru August 2.
(1.0) H 225
PEL 411 21 THERAPEUT EXERCISE (ATHLET TNG) LAB
June 3 thru August 2.
(1.0) H 227
PEL 411 22 THERAPEUT EXERCISE (ATHLET TNG) LAB
June 3 thru August 2.
(1.0) H 227

9-11
PEA 236 21 DEVELOPING PERSONAL FITNESS PROGRAMS
(2.0) H 222 - *

9-3
PED 350 21 TEACHING PHYS EDUC IN ELEM GRADES
(3.0) H 220 - P 11:30-1
PED 214 21 VOLLEYBALL
(0.5) GYM 2 12.30-2:30
PEA 106 21 CANOEING
(1.0) GYM 4 - *
PEA 128 21 TENNIS
(1.0) H 220 - *

1-4P
PED 452 21 PRINCIPLES OF COACHING
(2.0) H 222
PED 498 21 PHYSICAL EDUCATION WORKSHOP
June 3 thru June 7
(1.0) H 122 - O

PED 498 22 PHYSICAL EDUCATION WORKSHOP
June 10 thru June 14.
(2.0) H 122 - O

6-8P
PEA 112 21 HORSEMANSHIP
(1.0) H 220 - $*

6-9:30P
PED 355 21 ACCIDENT CAUSATION & PREVENTION
Monday Thru Thursday H 325
(3.0)
PED 361 21 KINESIOLOGY
Monday Thru Thursday H 332
(3.0)
PED 367 21 ARTS & CRAFTS IN RECREATION
Monday Thru Thursday H 220
(3.0)
PED 449 21 LEARNING ON THE MOVE
Monday Thru Thursday H 222
(3.0)
PED 475 21 MENTAL TRAINING IN SPORT
Monday Thru Thursday H 224
(3.0)

PHYSICS

6-9:45P
PHY 100 21 ELEMENTS OF PHYSICAL SCIENCE
Monday Thru Thursday C 260
(3.0) - *

POLITICAL SCIENCE

PAD 412 21 INTERNSHIP IN PUBLIC ADMINISTRATION
(3.0) TBA
PSC 412 21 INTERNSHIP IN POLITICAL SCIENCE
(3.0) TBA

8-12
PSC 100 21 AMERICAN GOVERNMENT & POLITICS
(3.0) J 204 - *
PSC 213 21 INTERNATIONAL RELATIONS
(3.0) J 104 - *

PSYCHOLOGY

8-12
PSY 100 21 INTRODUCTION TO PSYCHOLOGY
(3.0) M 300 - *
PSY 375 21 ABNORMAL PSYCHOLOGY
(3.0) M 301

6-9:30P
PSY 100 22 INTRODUCTION TO PSYCHOLOGY
Monday Thru Thursday M 300
(3.0) - *
PSY 210 21 DEVELOPMENTAL PSYCHOLOGY: LIFESPAN
Monday Thru Thursday M 301
(3.0)
PSY 265 21 INDUSTRIAL/ ORGANIZATIONAL PSYCHOLOGY
Monday Thru Thursday M 302
(3.0)

7P-10P
PSY 413 21 PSYCHODRAMA I
June 4 thru July 3.
Tuesday Thru Thursday M 414
(3.0)

SOCIAL WORK

12-3
SWO 200 21 INTRODUCTION TO SOCIAL WELFARE I
(3.0) MF 106

SOCIOLOGY

TBA
SOC 491 21 TOPICAL SEMINAR IN SOCIOLOGY
(3.0) G 101 - P

8-12
SOC 200 21 INTRODUCTION TO SOCIOLOGY
(3.0) G 202 - *
SOC 333 21 SELF & SOCIETY
(3.0) G 101

6-9:30P
SOC 200 22 INTRODUCTION TO SOCIOLOGY
Monday Thru Thursday G 101
(3.0) - *

SPEECH COMMUNICATIONS & THEATRE

TBA
SPC 400 21 INTERNSHIP IN SPEECH COMMUNICATION
Approval of Chair required
(3.0) TBA - P
THA 400 21 PROFESSIONAL APPRENTICESHIP
Approval of Chair required
(3.0) TBA - *P

8-12
SPC 101 21 SPEECH FUNDAMENTALS INTERPERS COMMUNIC
(3.0) M 413
SPC 403 21 PERSUASION
(3.0) M 418 - W

6:30P-10P
SPC 212 21 MASS COMMUNICATION
Monday Thru Thursday M 418
(3.0)

Regular Session Offerings

Monday, June 24 through Friday, August 2.
Holidays — July 4 and 5
Unless noted otherwise, classes meet Monday through Friday.

ACCOUNTING

TBA
ACC 400 31 INTERNSHIP
(3.0) TBA
ACC 400 32 INTERNSHIP
(6.0) TBA

8-9:30
ACC 201 31 PRINCIPLES OF ACCOUNTING I
(3.0) M 403
ACC 302 31 INTERMEDIATE ACCOUNTING II
(3.0) M 417

9:30-11
ACC 202 31 PRINCIPLES OF ACCOUNTING II
(3.0) M 403
ACC 405 31 ADVANCED ACCOUNTING
(3.0) M 417

11-12:30
ACC 201 32 PRINCIPLES OF ACCOUNTING I
(3.0) M 403
ACC 202 32 PRINCIPLES OF ACCOUNTING II
(3.0) M 417

6-9:30P
ACC 201 33 PRINCIPLES OF ACCOUNTING I
Monday-Wednesday M 313
(3.0)
ACC 202 33 PRINCIPLES OF ACCOUNTING II
July 15 thru August 23
Tuesday-Thursday M 316
(3.0)
ACC 304 31 COST ACCOUNTING II
July 15 thru August 23.
Monday-Wednesday M 316
(3.0)

ANTHROPOLOGY

See SOCIOLOGY for Sociology courses

TBA
ANT 113 31 ARCHAEOLOGICAL FIELD TECHNIQUES
(3.0) G 101
ANT 360 31 HISTORICAL ARCHAEOLOGY
(3.0) G 101
ANT 410 31 INDEPENDENT STUDIES IN ANTHROPOLOGY
(3.0) G 101

8-9:30
ANT 102 31 INTRODUCTION TO ANTHROPOLOGY: CULTURAL
(3.0) G 101 - *W

9:30-11:30
ANT 103 31 INTRODUCTION TO ANTHROPOLOGY: ARCHAEOLOGY
(3.0) G 202 - *

ART

8-9:30
ART 251 31 ART IN THE ELEMENTARY SCHOOL
(3.0) F 106 - *

9:30-11
ART 106 31 BEGINNING DRAWING
(3.0) F 202 - *P
ART 206 31 INTERMEDIATE DRAWING
(3.0) F 202 - *
ART 306 31 DRAWING III LIFE DRAWING
(3.0) F 202 - *

11-12
ART 216 31 BEGINNING PAINTING
(3.0) F 202 - *
ART 217 31 INTERMEDIATE PAINTING
(3.0) F 202 - *
ART 226 31 WATER COLOR I
(3.0) F 202 - *
ART 227 31 WATER COLOR II
(3.0) F 202 - *
ART 318 31 PAINTING FROM LANDSCAPE: INDEPENDENT PROJECT
(3.0) F 202 - *
ART 319 31 PAINTING FROM MASTERS: INDEPENDENT PROJECT
(3.0) F 202 - *

5P-9P
ART 331 31 CERAMICS III: ADVANCED TECHNIQUES
Monday Thru Thursday F 103
(3.0) - *
ART 332 31 CERAMICS: STUDIO PROBLEMS
Monday Thru Thursday F 103
(3.0) - *
ART 335 31 CERAMICS: INDEPENDENT PROJECTS
Monday Thru Thursday F 103
(3.0)

BIOLOGY

Internship in Biological Science (BIO409 Special Problems in Biology (BIO491) are available by arrangement with the Biology department

8-9:30
BIO 100 31 BASIC BIOLOGICAL SCIENCE
Lab, TR 12-2.
(3.0) C 312 - *
BIO 269 31 HUMAN ANATOMY & PHYSIOLOGY II
Lab, TR 11-1.
(4.0) C 317

7P-9:30P/S 8-5
BIO 471 31 WETLANDS
Lab meets Saturday 8-5p.
Monday-Wednesday C 317
(3.0)

7P-10P
BIO 465 31 IMMUNOLOGY
Lab included.
Monday Thru Thursday C 217
(4.0)

CHEMISTRY

TBA
CHE 410 31 ADVANCED INDEPENDENT STUDY OR RESEARCH
(3.0) TBA
CHE 450 31 INTERNSHIP IN CHEMISTRY
(3.0) TBA - P
CHE 450 32 INTERNSHIP IN CHEMISTRY
(5.0) TBA - P
CHE 450 33 INTERNSHIP IN CHEMISTRY
(6.0) TBA - P

8-10
CHE 104 31 GENERAL CHEMISTRY II
July 8 thru August 9.
(3.0) C 160 - *

8-10:30
CHE 232 31 ORGANIC CHEMISTRY II
July 8 thru August 2.
(3.0) C 130

10-12
CHE 102 31 ESSENTIALS OF CHEMISTRY
Includes lab.
(4.0) C 160 - *
CHE 404 31 FOUNDATIONS OF NUTRITION
July 8 thru August 9.
(3.0) C 151

10:30-12:30
CHE 101 31 FUNDAMENTALS OF CHEMISTRY
July 8 thru August 9
(3.0) C 130

12-4P
CRL 104 31 EXPERIMENTAL GENERAL CHEMISTRY II (LAB)
July 9 thru August 8.
Tuesday Thru Thursday C 340
(2.0)
CRL 233 31 EXPERIMENTAL ORGANIC CHEMISTRY II LAB
July 8 thru August 1.
Monday Thru Thursday C 361
(2.0)

5-7:30P
CHE 104 32 GENERAL CHEMISTRY II
July 8 thru August 8.
Monday Thru Thursday C 130
(3.0) - *

CHILDHOOD STUDIES AND READING

8-12
EDE 312 31 READING INSTRUCTION & PRACTICUM
Students will participate in public school summer reading programs.
(6.0) R 110 - M
EDE 312 32 READING INSTRUCTION & PRACTICUM
Students will participate in public school summer reading programs.
(6.0) R 306 - M

8:15-1:30
EDE 312 33 READING INSTRUCTION & PRACTICUM
Students will be interns in Benchmark's elementary reading program. Permission of Dr. James Habecker.
(6.0) OCL - M

9:30-11
EDE 251 31 CHILD DEVELOPMENT & BEHAVIOR
(3.0) R 101 - M

11-12:30
EDE 352 31 SELF & GROUP PROCESSES IN THE CLASSROOM
(3.0) R 101 - MW

COMMUNICATIVE DISORDERS

8-9:30
SPP 107 31 SPEECH & LANGUAGE DEVELOPMENT
Required for incoming transfer students. Without it, graduation can be delayed by up to 1 year.
(3.0) WA 200 - PW

8-10:30
SPP 351 31 CLINICAL PRACTICUM
Department approval required. Must be available to begin during the week of 6/17/91.
(3.0) TBA - P

9:30-11
SPP 106 31 INTRODUCTION TO PHONETICS
Required for incoming transfer students. Without it, graduation can be delayed by up to 1 year.
(3.0) WA 200 - P 10:30-1
SPP 352 31 ADVANCED CLINICAL PRACTICUM
Department approval required. Must be available to begin during the week of 6/17/91.
(3.0) TBA - P

COUNSELOR, SECONDARY AND PROFESSIONAL EDUCATION

8-9:30
EDF 100 31 SCHOOL & SOCIETY
(3.0) R 205
EDP 250 31 EDUCATIONAL PSYCHOLOGY
(3.0) R 211

9:30-11
EDP 250 32 EDUCATIONAL PSYCHOLOGY
(3.0) R 204
EDP 351 31 EVALUATION & MEASUREMENT
(3.0) R 205 - P

11-12:30
EDC 462 31 ESSENTIALS OF THE HELPING RELATIONSHIP
(3.0) R 204

CRIMINAL JUSTICE

TBA

CRJ 490 31 PRACTICUM
(6.0) TBA - MW

CRJ 490 32 PRACTICUM
(6.0) TBA - MW

CRJ 490 33 PRACTICUM
(6.0) TBA - MW

CRJ 490 34 PRACTICUM
(6.0) TBA - MW

CRJ 490 35 PRACTICUM
(6.0) TBA - MW

9:30-11

CRJ 470 31 INTERPERSONAL RELATIONS
(3.0) J 202

6-9:30P

CRJ 230 31 PROBATION & PAROLE
Monday-Wednesday J 202
(3.0)

ECONOMICS

8-9:15

ECO 101 31 PRINCIPLES OF ECONOMICS - SURVEY
(3.0) M 416 - *

ECO 111 31 PRINCIPLES OF ECONOMICS (MACRO)
Meets General Ed. when followed by ECO112.
(3.0) M 414 - *

ECO 112 31 PRINCIPLES OF ECONOMICS (MICRO)
Meets General Ed. when preceded by ECO111.
(3.0) C 151 - *

FIN 325 31 CORPORATION FINANCE
(3.0) JG001

9:30-10:45

ECO 252 31 QUANTITATIVE BUSINESS ANALYSIS II
July 15 thru August 23.
(3.0) BG014

ECO 411 31 INTERNSHIP
Permission of dept. Chair required.
(3.0) TBA

ECO 411 32 INTERNSHIP
Permission of dept. Chair required.
(6.0) TBA

11-12:15

ECO 385 31 ENVIRONMENTAL & RESOURCE ECONOMICS
(3.0) JG001

6-9:30P

ECO 111 32 PRINCIPLES OF ECONOMICS (MACRO)
Meets General Ed when followed by ECO112.
Monday-Wednesday JG001
(3.0) - *

ECO 112 32 PRINCIPLES OF ECONOMICS (MICRO)
General Ed. when preceded by ECO111.
Monday-Wednesday M 416
(3.0) - *

ECO 335 31 MONEY & BANKING
Tuesday-Thursday JG001
(3.0)

6:30-10P

ECO 252 32 QUANTITATIVE BUSINESS ANALYSIS II
July 15 thru August 23.
Tuesday-Thursday M 413
(3.0)

ENGLISH

8-9:30

ENG 120 31 EFFECTIVE WRITING I
(3.0) M 201 - *

ENG 121 31 EFFECTIVE WRITING II
(3.0) M 212 - *

LIT 165 31 INTRODUCTION TO LITERATURE
(3.0) M 213 - *W

LIT 336 31 SHAKESPEARE II
(3.0) M 215 - W

LIT 395 31 CHILDREN'S LITERATURE
(3.0) M 300

9:30-11

CLS 165 31 INTRODUCTION TO WORLD LITERATURE
(3.0) M 201 - *W

ENG 331 31 STRUCTURE OF MODERN ENGLISH
(3.0) M 212

ENG 390 31 TEACHING ENGLISH IN SECONDARY SCHOOLS
(3.0) M 214

ENG 450 31 PROSE WRITING SEMINAR
Violence and Social Control in Non-Fiction.
(3.0) M 213

JRN 200 31 COMMUNICATIONS MEDIA
(3.0) M 215

LIT 231 31 ENGLISH LITERATURE II
(3.0) M 300 - W

LIT 395 32 CHILDREN'S LITERATURE
(3.0) M 301

11-12:30

ENG 121 32 EFFECTIVE WRITING II
(3.0) M 201 - *

LIT 165 32 INTRODUCTION TO LITERATURE
(3.0) M 212 - *W

LIT 201 31 AMERICAN LITERATURE II
(3.0) M 214 - W

LIT 337 31 LITERATURE OF THE ENLIGHTENMENT
(3.0) M 213 - W

6-9:45P

ENG 120 32 EFFECTIVE WRITING I
Monday-Wednesday M 201
(3.0) - *

ENG 121 33 EFFECTIVE WRITING II
Monday-Wednesday M 212
(3.0) - *

ENG 121 34 EFFECTIVE WRITING II
Tuesday-Thursday M 212
(3.0) - *

ENG 368 31 ORGANIZATIONAL WRITING
Monday-Wednesday M 213
(3.0) - W

LIT 165 33 INTRODUCTION TO LITERATURE
Monday-Wednesday M 215
(3.0) - *W

LIT 165 34 INTRODUCTION TO LITERATURE
Tuesday-Thursday M 201
(3.0) - *W

LIT 270 31 URBANISM & THE MODERN IMAGINATION
Tuesday-Thursday M 213
(3.0) - *IW

FOREIGN LANGUAGES

8-9:45

FRE 102 31 ELEMENTARY FRENCH II (TRADITIONAL)
July 8 thru August 9.
(3.0) M 315

GER 101 31 ELEMENTARY GERMAN I
(3.0) M 415

SPA 102 31 ELEMENTARY SPANISH II
July 8 thru August 9.
(3.0) M 316

9:30-11

GER 102 31 ELEMENTARY GERMAN II
(3.0) M 415

10-11:45

FRE 202 31 INTERMEDIATE FRENCH II (TRADITIONAL)
July 8 thru August 9.
(3.0) M 315

SPA 202 31 INTERMEDIATE SPANISH II
July 8 thru August 9.
(3.0) M 316

11-12:30

GER 201 31 INTERMEDIATE GERMAN I
(3.0) M 415

GER 202 31 INTERMEDIATE GERMAN II
(3.0) M 415

5-7P

ESP 222 31 LATIN-AMER CULT & CIVILIZ (IN ENGLISH)
Monday Thru Thursday M 400
(3.0) - *FI

7-9P

ESP 222 32 LATIN-AMER CULT & CIVILIZ (IN ENGLISH)
Monday Thru Thursday M 400
(3.0) - *FI

GEOGRAPHY AND PLANNING

TBA

GEO 415 31 INTERNSHIP IN GEOGRAPHY & PLANNING
Permission of instructor
(3.0) TBA

GEO 415 32 INTERNSHIP IN GEOGRAPHY & PLANNING
Permission of instructor.
(6.0) TBA

8-9:30

GEO 102 31 PHYSICAL GEOGRAPHY
(3.0) J 102

9:30-11
GEO 302 31 LATIN AMERICA
(3.0) J 102 - F

11-12:30
GEO 101 31 WORLD GEOGRAPHY
(3.0) J 102 - *
GEO 200 31 PATTERNS OF WORLD CULTURES
(3.0) M 300

6P-10P
GEO 101 32 WORLD GEOGRAPHY
Tuesday-Thursday J 104
(3.0) - *
GEO 303 31 EUROPE
Monday-Wednesday J 102
(3.0) - F
GEO 320 31 LAND USE PLANNING
Monday-Wednesday J 203
(3.0)

GEOLOGY AND ASTRONOMY

TBA
ESS 460 31 INTERNSHIP
Must contact Dr Wisall
(1.0) TBA
ESS 460 32 INTERNSHIP
Must contact Dr Wiswall
(2.0) TBA
ESS 460 33 INTERNSHIP
Must contact Dr Wiswall
(3.0) TBA
ESS 460 34 INTERNSHIP
Must contact Dr Wiswall.
(6.0) TBA

8-9:30
ESS 101 31 INTRODUCTION TO GEOLOGY
(3.0) C 050 - *

9:30-11
ESS 111 31 GENERAL ASTRONOMY
(3.0) C 186 - *

12:30-2
ESS 111 32 GENERAL ASTRONOMY
(3.0) C 120 - *

6-9:30P
ESS 101 32 INTRODUCTION TO GEOLOGY
Monday-Wednesday C 050
(3.0) - *
ESS 101 33 INTRODUCTION TO GEOLOGY
Tuesday-Thursday C 050
(3.0) - *

HEALTH

TBA
HEA 259 31 CLINICAL PRACTICE II
(4.0) OCL
HEA 261 31 RESPIRATORY THERAPY SEMINAR I
(2.0) OCL - W
HEA 421 31 PUBLIC HEALTH INTERNSHIP
(6.0) OCL
HEA 456 31 ENVIRONMENTAL HEALTH INTERNSHIP
(6.0) OCL

8-9:30
HEA 102 31 HUMANS & THE ENVIRONMENT
(3.0) H 331 - *I
HEA 103 31 ADDICTIVES
(3.0) H 327
HEA 206 31 HUMAN DEVELOPMENT
(3.0) H 326

8-4:30
HEA 435 31 HEALTH WORKSHOP
See Workshop description
June 27 thru July 3.
Reproductive health issues.
(3.0) H 222 - O
HEA 435 32 HEALTH WORKSHOP
See workshop description.
July 17 thru July 23.
"At Risk" adolescent-health Issues.
(3.0) H 222 - O

9:30-11
HEA 102 32 HUMANS & THE ENVIRONMENT
(3.0) H 331 - *I
HEA 202 31 HEALTH EDUCATION II
(3.0) H 326
HEA 301 31 HEALTH FOR THE ELEMENTARY GRADES
Elementary Education majors only.
(3.0) H 327
HEA 341 31 CHRONIC & COMMUNICABLE DISEASES
(3.0) H 221

HISTORY

Independent Studies in History (HIS490), in History (HIS450) and Field Studies in (HIS460) may be scheduled with the permission of the chairperson.

8-9:30
HIS 100 31 MAINSTREAMS IN HISTORY
(3.0) M 303 - *
HIS 102 31 HISTORY OF CIVILIZATION II
(3.0) M 314 - *
HIS 458 31 HISTORY OF THE COLD WAR
(3.0) M 313

9:30-11
HIS 100 32 MAINSTREAMS IN HISTORY
(3.0) M 303 - *
HIS 152 31 HISTORY OF UNITED STATES II
(3.0) M 314

INSTRUCTIONAL MEDIA

TBA
EDM 290 31 INTERNSHIP
(4.0) R 306 - P
EDM 290 32 INTERNSHIP
(6.0) R 306 - P
EDM 290 33 INTERNSHIP
(9.0) R 306 - P
EDM 290 34 INTERNSHIP
(12.0) R302C - P
EDM 290 35 INTERNSHIP
(15.0) R302C - P

9:30-11
EDM 225 31 BASIC PHOTOGRAPHY
(3.0) R302C - *
EDM 275 31 SOUND REPRODUCTION IN INSTRUC COMMUNIC
(3.0) R 306
EDM 425 31 BASIC PHOTOGRAPHY
(3.0) R302C - *
EDM 475 31 SOUND REPRODUCTION IN EDUCAT COMMUNICS
(3.0) R 306

11-12:30
EDM 300 31 INTRODUCTION TO INSTRUCTIONAL COMMUNICAT
(3.0) R302C

MANAGEMENT

8-9:30
MGT 402 31 ORGANIZATION THEORY & BEHAVIOR
(3.0) E 102 - W

9:30-11
MGT 302 31 HUMAN RESOURCES MANAGEMENT
(3.0) E 102 - W

11-12:30
MGT 301 31 PRINCIPLES OF MANAGEMENT
(3.0) E 102
MGT 303 31 PRODUCTION & OPERATIONS MANAGEMENT
(3.0) F 200

6-9:30P
INB 301 31 INTRODUCTION TO INTERNATIONAL BUSINESS
Tuesday-Thursday F 206
(3.0)
MGT 303 32 PRODUCTION & OPERATIONS MANAGEMENT
Monday-Wednesday F 200
(3.0)
MGT 401 31 ENTREPRENEURSHIP
Monday and Wednesday.
Monday-Wednesday F 206
(3.0)
MGT 405 32 BUSINESS POLICY & STRATEGY
Tuesday-Thursday F 200
(3.0) - W
MGT 408 31 BUSINESS & SOCIETY
Monday-Wednesday F 201
(3.0) - W

MARKETING

TBA
MKT 450 31 MARKETING INTERNSHIP
(3.0) TBA
MKT 450 32 MARKETING INTERNSHIP
(6.0) TBA

8-9:30
MKT 301 31 PRINCIPLES OF MARKETING
(3.0) C 260

9:30-11
MKT 327 31 MARKETING MANAGEMENT
(3.0) E 101

wish to preregister to attend courses during the following
essions (Maximum permissible load 12 credits total—Pre
r Post, 3 crs. each, Regular, 6 crs): USE ONE CARD FOR
LL SESSIONS

SESSION	ABV-NUMB	SECT	TITLE	CREDITS
re				
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eg				
ost				

rantee admission to degree candidacy.

TBA

CSC 400 31 COOPERATIVE SPECIALTY
Permission of Mr. Edelman.
(9.0) TBA

CSC 490 31 INDEPENDENT PROJECT IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(1.0) TBA - P

CSC 490 32 INDEPENDENT PROJECT IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(2.0) TBA - P

CSC 490 33 INDEPENDENT PROJECT IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(3.0) TBA - P

CSC 490 34 INDEPENDENT PROJECT IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(4.0) TBA - P

CSC 490 35 INDEPENDENT PROJECT IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(5.0) TBA - P

CSC 499 31 INDEPENDENT STUDY IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(1.0) TBA - P

CSC 499 32 INDEPENDENT STUDY IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(2.0) TBA - P

CSC 499 33 INDEPENDENT STUDY IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(3.0) TBA - P

MAT 400 31 HISTORY OF MATH FOR ELEMENTARY TEACHERS
Ancient Greek Mathematics, offered in Greece.
(3.0) OCL

MAT 401 31 HISTORY OF MATHEMATICS
Ancient Greek Mathematics, offered in Greece.
(3.0) OCL

8-9:30

CSC 101 31 INTRODUCTION TO COMPUTERS
(3.0) LB 313 - *

CSC 115 31 INTRODUCTION TO COMPUTER PROGRAMMING
(3.0) PM007C - *

ODUCTION TO
PUTER SCIENCE
PM007B - *

DAMENTALS OF
EBRA
H116B

HEMATICS FOR
IENTARY TEACHERS I
PM007A - *

ODUCTION TO
HEMATICS
H116A - *

LEGE ALGEBRA
H 221 - *

OLOGY
PM007D

ODUCTION TO
PUTERS
LB 313 - *

CSC 350 31 COMPUTERS IN EDUCATION
(3.0) LB 409

MAT 000 32 FUNDAMENTALS OF ALGEBRA
(3.0) H116B

MAT 102 31 MATHEMATICS FOR ELEMENTARY TEACHERS II
(3.0) PM007A

MAT 103 32 INTRODUCTION TO MATHEMATICS
(3.0) C 317 - *

MAT 105 31 COLLEGE ALGEBRA & TRIGONOMETRY
(3.0) PM007C - *

MAT 108 31 SURVEY OF CALCULUS FOR BUSINESS
(3.0) PM007D - *

MAT 121 31 STATISTICS
(3.0) H 108 - *

MAT 211 31 LINEAR ALGEBRA
(3.0) H116A

MAT 390 31 SEMINAR IN MATHEMATICS EDUCATION
(3.0) PM007B

11-12:45

MAT 162 31 CALCULUS II
(4.0) H116A - *

MAT 221 31 APPLIED STATISTICS
(3.0) PM007C

MAT 351 31 TEACHING MATHEMATICS IN ELEM SCHOOL I
(3.0) PM007D

6-9:30P

CSC 101 33 INTRODUCTION TO COMPUTERS
Monday-Wednesday LB 313
(3.0) - *

CSC 101 34 INTRODUCTION TO COMPUTERS
Tuesday-Thursday LB 313
(3.0) - *

CSC 115 32 INTRODUCTION TO COMPUTER PROGRAMMING
Tuesday-Thursday LB 314
(3.0) - *

CSC 142 31 APPLIED SOFTWARE
Monday-Wednesday H116A
(3.0) - *

CSC 241 31 DATA STRUCTURES
Tuesday-Thursday PM007A
(3.0)

CSC 242 31 COMPUTER ORGANIZATION
Tuesday-Thursday H116A
(3.0)

CSC 361 31 SIMULATION
Monday-Wednesday PM007B
(3.0)

CSC 371 31 COMPUTER GRAPHICS
Tuesday-Thursday PM007B
(3.0)

CSC 495 31 TOPICS IN COMPUTER SCIENCE
Monday-Wednesday H 108
(3.0) - P

MUSIC: HISTORY & LITERATURE

TBA

MHL 462 31 MOZART & HIS WORKS
Course taught in Salzburg, Austria. July 18 thru August 10. Contact Dr. Charles Price.
(3.0) OCL - *

8-11

MHL 455 31 HISTORY OF ORCHESTRAL MUSIC
June 24 thru July 12.
(3.0) S 007 - *

9:30-11

MHL 201 31 FORM & STYLE IN THE ARTS
(3.0) S 008 - *I

MUSIC: INSTRUMENTAL

Private Instrumental Music Lessons
Prefixes: BAR, BAS, BSN, CLT, FLU, FRH, SAX, TBA, TPT, TRB, VCL, VLA, VLN

101-402 Minor Level (1)

111-142 Major Level (2)

141-442 Advanced Level (3)

12:30-2:15

AIC 312 31 INSTRUMENTAL CONDUCTING II
June 24 thru July 12.
(2.0) S 001

MUSIC: THEORY & COMPOSITION

8-9:30

MTC 113 31 THEORY OF MUSIC II
(3.0) S 005 - *

MTC 212 31 THEORY OF MUSIC III
(3.0) S 005 - *

8-5

MWJ 436 31 JAZZ STUDIES WORKSHOP
Register using School of Music brochure.
June 24 thru June 28.
(3.0) SAU - $O

MWS 436 31 SYNTHESIZER WORKSHOP: CONTEMP APPLICATNS
Register using School of Music brochure.
June 21 thru June 26.
(3.0) S 007 - $O

9:30-10:30

MTC 115 31 AURAL ACTIVITIES II
(2.0) S 006 - *

MTC 214 31 AURAL ACTIVITIES III
(2.0) S 006 - *

9:30-11
GEO 302 31 LATIN AMERICA
(3.0) J 102 - F

11-12:30
GEO 101 31 WORLD GEOGRAPHY
(3.0) J 102 - *
GEO 200 31 PATTERNS OF WORLD CULTURES
(3.0) M 300

6P-10P
GEO 101 32 WORLD GEOGRAPHY
Tuesday-Thursday J 104
(3.0) - *
GEO 303 31 EUROPE
Monday-Wednesday J 102
(3.0) - F
GEO 320 31 LAND USE PLANNING
Monday-Wednesday J 203
(3.0)

GEOLOGY AND ASTRONOMY

TBA
ESS 460 31 INTERNSHIP
Must contact Dr. Wisall
(1.0) TBA
ESS 460 32 INTERNSHIP
Must contact Dr. Wiswall
(2.0) TBA
ESS 460 33 INTERNSHIP
Must contact Dr. Wiswall
(3.0) TBA
ESS 460 34 INTERNSHIP
Must contact Dr. Wiswall.
(6.0) TBA

8-9:30
ESS 101 31 INTRODUCTION TO GEOLOGY
(3.0) C 050 - *

9:30-11
ESS 111 31 GENERAL ASTRONOMY
(3.0) C 186 - *

12:30-2
ESS 111 32 GENERAL ASTRONOMY
(3.0) C 120 - *

6-9:30P
ESS 101 32 INTRODUCTION TO GEOLOGY
Monday-Wednesday C 050
(3.0) - *
ESS 101 33 INTRODUCTION TO GEOLOGY
Tuesday-Thursday C 050
(3.0) - *

HEALTH

TBA
HEA 259 31 CLINICAL PRACTICE II
(4.0) OCL
HEA 261 31 RESPIRATORY THERAPY SEMINAR I
(2.0) OCL - W
HEA 421 31 PUBLIC HEALTH INTERNSHIP
(6.0) OCL
HEA 456 31 ENVIRONMENTAL HEALTH INTERNSHIP
(6.0) OCL

8-9:30
HEA 102 31 HUMANS & THE ENVIRONMENT
(3.0) H 331 - *I
HEA 103 31 ADDICTIVES
(3.0) H 327
HEA 206 31 HUMAN DEVELOPMENT
(3.0) H 326

8-4:30
HEA 435 31 HEALTH WORKSHOP
See Workshop description.
June 27 thru July 3.
Reproductive health issues.
(3.0) H 222 - O
HEA 435 32 HEALTH WORKSHOP
See workshop description.
July 17 thru July 23
"At Risk" adolescent-health Issues.
(3.0) H 222 - O

9:30-11
HEA 102 32 HUMANS & THE ENVIRONMENT
(3.0) H 331 - *I
HEA 202 31 HEALTH EDUCATION II
(3.0) H 326
HEA 301 31 HEALTH FOR THE ELEMENTARY GRADES
Elementary Education majors only.
(3.0) H 327
HEA 341 31 CHRONIC & COMMUNICABLE DISEASES
(3.0) H 221

HISTORY

Independent Studies in History (HIS490), in History (HIS450) and Field Studies in (HIS460) may be scheduled with the permission of the chairperson.

8-9.30
HIS 100 31 MAINSTREAMS IN HISTORY
(3.0) M 303 - *
HIS 102 31 HISTORY OF CIVILIZATION II
(3.0) M 314 - *
HIS 458 31 HISTORY OF THE COLD WAR
(3.0) M 313

9.30-11
HIS 100 32 MAINSTREAMS IN HISTORY
(3.0) M 303 - *
HIS 152 31 HISTORY OF UNITED STATES II
(3.0) M 314

INSTRUCTIONAL MEDIA

TBA
EDM 290 31 INTERNSHIP
(4.0) R 306 - P
EDM 290 32 INTERNSHIP
(6.0) R 306 - P
EDM 290 33 INTERNSHIP
(9.0) R 306 - P
EDM 290 34 INTERNSHIP
(12.0) R302C - P
EDM 290 35 INTERNSHIP
(15.0) R302C - P

PLEASE PRINT WEST CH
UNDERGRADUATE CLASSES—
Name _____
(LAST) (FIRST)
SOCIAL SECURITY NUMBER _____
Number & Street _____
State _____ Zip Code _____
Out-of-State (Specify) _____
Student at ANOTHER College/University:
Yes _____ No_____
Summer Resident Pre_____ Regular_____ Post_____
Summer Commuter Pre_____ Regular_____ Post_____

Race/Ethnic data _____Black–Non-Hispanic _____Wh
_____Asian or Pacific Islander _____
**THIS FORM WILL NOT BE PROCESSED UNLESS A
Mail or bring this form in person to Office of Summer
Chester, PA 19383

BEHAVIOR
(3.0) E 102 - W

9:30-11
MGT 302 31 HUMAN RESOURCES MANAGEMENT
(3.0) E 102 - W

11-12:30
MGT 301 31 PRINCIPLES OF MANAGEMENT
(3.0) E 102
MGT 303 31 PRODUCTION & OPERATIONS MANAGEMENT
(3.0) F 200

6-9:30P
INB 301 31 INTRODUCTION TO INTERNATIONAL BUSINESS
Tuesday-Thursday F 206
(3.0)
MGT 303 32 PRODUCTION & OPERATIONS MANAGEMENT
Monday-Wednesday F 200
(3.0)
MGT 401 31 ENTREPRENEURSHIP
Monday and Wednesday.
Monday-Wednesday F 206
(3.0)
MGT 405 32 BUSINESS POLICY & STRATEGY
Tuesday-Thursday F 200
(3.0) - W
MGT 408 31 BUSINESS & SOCIETY
Monday-Wednesday F 201
(3.0) - W

MARKETING

TBA
MKT 450 31 MARKETING INTERNSHIP
(3.0) TBA
MKT 450 32 MARKETING INTERNSHIP
(6.0) TBA

8-9:30
MKT 301 31 PRINCIPLES OF MARKETING
(3.0) C 260

9:30-11
MKT 327 31 MARKETING MANAGEMENT
(3.0) E 101

ER UNIVERSITY PLEASE PRINT
REGISTRATION—SUMMER SESSIONS
_____ Date _____ 19 _____
(Maiden/Middle)
_____ Telephone Number_____
__City _____County_____
dent of Pennsylvania—Yes _____ No _____
. _____M_____ F Birthdate_____
CHECK APPROPRIATE ITEMS BELOW:
____Candidate for degree at West Chester University
____Previously attended WCU — Year(s)_____
____Securing credits for transfer to_____
College/University
____Graduate of _____College/University
taking work to qualify for (Provisional) or
(Permanent) Teaching Certificate
____Personal growth
Non-Hispanic ____Hispanic
r. Indian or Alaskan Native (OVER)
NFORMATION IS COMPLETED.
ns, 144 E.O. Bull Center, West Chester University, West

TBA

CSC 400 31 COOPERATIVE SPECIALTY
Permission of Mr. Edelman.
(9.0) TBA

CSC 490 31 INDEPENDENT PROJECT IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(1.0) TBA - P

CSC 490 32 INDEPENDENT PROJECT IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(2.0) TBA - P

CSC 490 33 INDEPENDENT PROJECT IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(3.0) TBA - P

CSC 490 34 INDEPENDENT PROJECT IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(4.0) TBA - P

CSC 490 35 INDEPENDENT PROJECT IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(5.0) TBA - P

CSC 499 31 INDEPENDENT STUDY IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(1.0) TBA - P

CSC 499 32 INDEPENDENT STUDY IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(2.0) TBA - P

CSC 499 33 INDEPENDENT STUDY IN COMPUTER SCIENCE
Permission of Dr Weaver.
(3.0) TBA - P

MAT 400 31 HISTORY OF MATH FOR ELEMENTARY TEACHERS
Ancient Greek Mathematics, offered in Greece.
(3.0) OCL

MAT 401 31 HISTORY OF MATHEMATICS
Ancient Greek Mathematics, offered in Greece.
(3.0) OCL

8-9:30

CSC 101 31 INTRODUCTION TO COMPUTERS
(3.0) LB 313 - *

CSC 115 31 INTRODUCTION TO COMPUTER PROGRAMMING
(3.0) PM007C - *

ODUCTION TO
PUTER SCIENCE
PM007B - *

DAMENTALS OF
EBRA
H116B

EMATICS FOR
IENTARY TEACHERS I
PM007A - *

ODUCTION TO
EMATICS
H116A - *

EGE ALGEBRA
H 221 - *

OLOGY
PM007D

ODUCTION TO
PUTERS
LB 313 - *

CSC 350 31 COMPUTERS IN EDUCATION
(3.0) LB 409

MAT 000 32 FUNDAMENTALS OF ALGEBRA
(3.0) H116B

MAT 102 31 MATHEMATICS FOR ELEMENTARY TEACHERS II
(3.0) PM007A

MAT 103 32 INTRODUCTION TO MATHEMATICS
(3.0) C 317 - *

MAT 105 31 COLLEGE ALGEBRA & TRIGONOMETRY
(3.0) PM007C - *

MAT 108 31 SURVEY OF CALCULUS FOR BUSINESS
(3.0) PM007D - *

MAT 121 31 STATISTICS
(3.0) H 108 - *

MAT 211 31 LINEAR ALGEBRA
(3.0) H116A

MAT 390 31 SEMINAR IN MATHEMATICS EDUCATION
(3.0) PM007B

11-12:45

MAT 162 31 CALCULUS II
(4.0) H116A - *

MAT 221 31 APPLIED STATISTICS
(3.0) PM007C

MAT 351 31 TEACHING MATHEMATICS IN ELEM SCHOOL I
(3.0) PM007D

6-9:30P

CSC 101 33 INTRODUCTION TO COMPUTERS
Monday-Wednesday LB 313
(3.0) - *

CSC 101 34 INTRODUCTION TO COMPUTERS
Tuesday-Thursday LB 313
(3.0) - *

CSC 115 32 INTRODUCTION TO COMPUTER PROGRAMMING
Tuesday-Thursday LB 314
(3.0) - *

CSC 142 31 APPLIED SOFTWARE
Monday-Wednesday H116A
(3.0) - *

CSC 241 31 DATA STRUCTURES
Tuesday-Thursday PM007A
(3.0)

CSC 242 31 COMPUTER ORGANIZATION
Tuesday-Thursday H116A
(3.0)

CSC 361 31 SIMULATION
Monday-Wednesday PM007B
(3.0)

CSC 371 31 COMPUTER GRAPHICS
Tuesday-Thursday PM007B
(3.0)

CSC 495 31 TOPICS IN COMPUTER SCIENCE
Monday-Wednesday H 108
(3.0) - P

MUSIC: HISTORY & LITERATURE

TBA

MHL 462 31 MOZART & HIS WORKS
Course taught in Salzburg, Austria. July 18 thru August 10. Contact Dr. Charles Price.
(3.0) OCL - *

8-11

MHL 455 31 HISTORY OF ORCHESTRAL MUSIC
June 24 thru July 12.
(3.0) S 007 - *

9:30-11

MHL 201 31 FORM & STYLE IN THE ARTS
(3.0) S 008 - *I

MUSIC: INSTRUMENTAL

Private Instrumental Music Lessons
Prefixes: BAR, BAS, BSN, CLT, FLU, FRH, SAX, TBA, TPT, TRB, VCL, VLA, VLN

101-402 Minor Level (1)

111-142 Major Level (2)

141-442 Advanced Level (3)

12:30-2:15

AIC 312 31 INSTRUMENTAL CONDUCTING II
June 24 thru July 12.
(2.0) S 001

MUSIC: THEORY & COMPOSITION

8-9:30

MTC 113 31 THEORY OF MUSIC II
(3.0) S 005 - *

MTC 212 31 THEORY OF MUSIC III
(3.0) S 005 - *

8-5

MWJ 436 31 JAZZ STUDIES WORKSHOP
Register using School of Music brochure.
June 24 thru June 28.
(3.0) SAU - $O

MWS 436 31 SYNTHESIZER WORKSHOP: CONTEMP APPLICATNS
Register using School of Music brochure.
June 21 thru June 26.
(3.0) S 007 - $O

9:30-10:30

MTC 115 31 AURAL ACTIVITIES II
(2.0) S 006 - *

MTC 214 31 AURAL ACTIVITIES III
(2.0) S 006 - *

9:30-11
GEO 302 31 LATIN AMERICA
(3.0) J 102 - F

11-12:30
GEO 101 31 WORLD GEOGRAPHY
(3.0) J 102 - *
GEO 200 31 PATTERNS OF WORLD CULTURES
(3.0) M 300

6P-10P
GEO 101 32 WORLD GEOGRAPHY
Tuesday-Thursday J 104
(3.0) - *
GEO 303 31 EUROPE
Monday-Wednesday J 102
(3.0) - F
GEO 320 31 LAND USE PLANNING
Monday-Wednesday J 203
(3.0)

GEOLOGY AND ASTRONOMY

TBA
ESS 460 31 INTERNSHIP
Must contact Dr Wisall.
(1.0) TBA
ESS 460 32 INTERNSHIP
Must contact Dr Wiswall
(2.0) TBA
ESS 460 33 INTERNSHIP
Must contact Dr Wiswall
(3.0) TBA
ESS 460 34 INTERNSHIP
Must contact Dr Wiswall
(6.0) TBA

8-9:30
ESS 101 31 INTRODUCTION TO GEOLOGY
(3.0) C 050 - *

9:30-11
ESS 111 31 GENERAL ASTRONOMY
(3.0) C 186 - *

12:30-2
ESS 111 32 GENERAL ASTRONOMY
(3.0) C 120 - *

6-9:30P
ESS 101 32 INTRODUCTION TO GEOLOGY
Monday-Wednesday C 050
(3.0) - *
ESS 101 33 INTRODUCTION TO GEOLOGY
Tuesday-Thursday C 050
(3.0) - *

HEALTH

TBA
HEA 259 31 CLINICAL PRACTICE II
(4.0) OCL
HEA 261 31 RESPIRATORY THERAPY SEMINAR I
(2.0) OCL - W
HEA 421 31 PUBLIC HEALTH INTERNSHIP
(6.0) OCL
HEA 456 31 ENVIRONMENTAL HEALTH INTERNSHIP
(6.0) OCL

8-9:30
HEA 102 31 HUMANS & TI
ENVIRONMEN
(3.0) H 331 - *
HEA 103 31 ADDICTIVES
(3.0) H 327
HEA 206 31 HUMAN DEVE
(3.0) H 326

8-4:30
HEA 435 31 HEALTH WORI
See Workshop
June 27 thru Ju
Reproductive h
(3.0) H 222 - C
HEA 435 32 HEALTH WORI
See workshop
July 17 thru Jul
"At Risk" adole
Issues
(3.0) H 222 - C

9:30-11
HEA 102 32 HUMANS & THE ENVIRONMENT
(3.0) H 331 - *I
HEA 202 31 HEALTH EDUCATION II
(3.0) H 326
HEA 301 31 HEALTH FOR THE ELEMENTARY GRADES
Elementary Education majors only
(3.0) H 327
HEA 341 31 CHRONIC & COMMUNICABLE DISEASES
(3.0) H 221

HISTORY

Independent Studies in History (HIS490), in History (HIS450) and Field Studies in (HIS460) may be scheduled with the permission of the chairperson.

8-9:30
HIS 100 31 MAINSTREAMS IN HISTORY
(3.0) M 303 - *
HIS 102 31 HISTORY OF CIVILIZATION II
(3.0) M 314 - *
HIS 458 31 HISTORY OF THE COLD WAR
(3.0) M 313

9:30-11
HIS 100 32 MAINSTREAMS IN HISTORY
(3.0) M 303 - *
HIS 152 31 HISTORY OF UNITED STATES II
(3.0) M 314

INSTRUCTIONAL MEDIA

TBA
EDM 290 31 INTERNSHIP
(4.0) R 306 - P
EDM 290 32 INTERNSHIP
(6.0) R 306 - P
EDM 290 33 INTERNSHIP
(9.0) R 306 - P
EDM 290 34 INTERNSHIP
(12.0) R302C - P
EDM 290 35 INTERNSHIP
(15.0) R302C - P

Students enrolled during the academic year at some other college or university must have their adviser or dean of instruction sign the following statement (a written permission is also acceptable):

I hereby certify that the above named person is a student in good standing with a scholarship record of average or above at_____ College or University, and I approve the courses listed to be completed during the summer session(s) at West Chester University.
(High school students are requested to have their principal's signature prior to their enrollment.)

Date_____ 19_____

_____
Dean

NOTE. Admission to summer school does

BEHAVIOR
(3.0) E 102 - W

9:30-11
MGT 302 31 HUMAN RESOURCES MANAGEMENT
(3.0) E 102 - W

11-12:30
MGT 301 31 PRINCIPLES OF MANAGEMENT
(3.0) E 102
MGT 303 31 PRODUCTION & OPERATIONS MANAGEMENT
(3.0) F 200

6-9:30P
INB 301 31 INTRODUCTION TO INTERNATIONAL BUSINESS
Tuesday-Thursday F 206
(3.0)
MGT 303 32 PRODUCTION & OPERATIONS MANAGEMENT
Monday-Wednesday F 200
(3.0)
MGT 401 31 ENTREPRENEURSHIP
Monday and Wednesday.
Monday-Wednesday F 206
(3.0)
MGT 405 32 BUSINESS POLICY & STRATEGY
Tuesday-Thursday F 200
(3.0) - W
MGT 408 31 BUSINESS & SOCIETY
Monday-Wednesday F 201
(3.0) - W

MARKETING

TBA
MKT 450 31 MARKETING INTERNSHIP
(3.0) TBA
MKT 450 32 MARKETING INTERNSHIP
(6.0) TBA

8-9:30
MKT 301 31 PRINCIPLES OF MARKETING
(3.0) C 260

9:30-11
MKT 327 31 MARKETING MANAGEMENT
(3.0) E 101

11-12:30
MKT 404 31 INTERNATIONAL MARKETING
(3.0) C 260
MKT 408 31 MARKETING RESEARCH
(3.0) E 101

6P-10P
MKT 301 32 PRINCIPLES OF MARKETING
Monday-Wednesday E 101
(3.0)
MKT 322 32 ADVERTISING & SALES PROMOTION
Tuesday-Thursday E 102
(3.0)
MKT 327 32 MARKETING MANAGEMENT
Tuesday-Thursday E 101
(3.0)

MATHEMATICS AND COMPUTER SCIENCE

TBA
CSC 400 31 COOPERATIVE SPECIALTY
Permission of Mr. Edelman.
(9.0) TBA
CSC 490 31 INDEPENDENT PROJECT IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(1.0) TBA - P
CSC 490 32 INDEPENDENT PROJECT IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(2.0) TBA - P
CSC 490 33 INDEPENDENT PROJECT IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(3.0) TBA - P
CSC 490 34 INDEPENDENT PROJECT IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(4.0) TBA - P
CSC 490 35 INDEPENDENT PROJECT IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(5.0) TBA - P
CSC 499 31 INDEPENDENT STUDY IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(1.0) TBA - P
CSC 499 32 INDEPENDENT STUDY IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(2.0) TBA - P
CSC 499 33 INDEPENDENT STUDY IN COMPUTER SCIENCE
Permission of Dr. Weaver.
(3.0) TBA - P
MAT 400 31 HISTORY OF MATH FOR ELEMENTARY TEACHERS
Ancient Greek Mathematics, offered in Greece.
(3.0) OCL
MAT 401 31 HISTORY OF MATHEMATICS
Ancient Greek Mathematics, offered in Greece.
(3.0) OCL

8-9:30
CSC 101 31 INTRODUCTION TO COMPUTERS
(3.0) LB 313 - *
CSC 115 31 INTRODUCTION TO COMPUTER PROGRAMMING
(3.0) PM007C - *
CSC 141 31 INTRODUCTION TO COMPUTER SCIENCE
(3.0) PM007B - *
MAT 000 31 FUNDAMENTALS OF ALGEBRA
(3.0) H116B
MAT 101 31 MATHEMATICS FOR ELEMENTARY TEACHERS I
(3.0) PM007A - *
MAT 103 31 INTRODUCTION TO MATHEMATICS
(3.0) H116A - *
MAT 107 31 COLLEGE ALGEBRA
(3.0) H 221 - *
MAT 432 31 TOPOLOGY
(3.0) PM007D

9:30-11
CSC 101 32 INTRODUCTION TO COMPUTERS
(3.0) LB 313 - *
CSC 350 31 COMPUTERS IN EDUCATION
(3.0) LB 409
MAT 000 32 FUNDAMENTALS OF ALGEBRA
(3.0) H116B
MAT 102 31 MATHEMATICS FOR ELEMENTARY TEACHERS II
(3.0) PM007A
MAT 103 32 INTRODUCTION TO MATHEMATICS
(3.0) C 317 - *
MAT 105 31 COLLEGE ALGEBRA & TRIGONOMETRY
(3.0) PM007C - *
MAT 108 31 SURVEY OF CALCULUS FOR BUSINESS
(3.0) PM007D - *
MAT 121 31 STATISTICS
(3.0) H 108 - *
MAT 211 31 LINEAR ALGEBRA
(3.0) H116A
MAT 390 31 SEMINAR IN MATHEMATICS EDUCATION
(3.0) PM007B

11-12:45
MAT 162 31 CALCULUS II
(4.0) H116A - *
MAT 221 31 APPLIED STATISTICS
(3.0) PM007C
MAT 351 31 TEACHING MATHEMATICS IN ELEM SCHOOL I
(3.0) PM007D

6-9:30P
CSC 101 33 INTRODUCTION TO COMPUTERS
Monday-Wednesday LB 313
(3.0) - *
CSC 101 34 INTRODUCTION TO COMPUTERS
Tuesday-Thursday LB 313
(3.0) - *
CSC 115 32 INTRODUCTION TO COMPUTER PROGRAMMING
Tuesday-Thursday LB 314
(3.0) - *
CSC 142 31 APPLIED SOFTWARE
Monday-Wednesday H116A
(3.0) - *
CSC 241 31 DATA STRUCTURES
Tuesday-Thursday PM007A
(3.0)
CSC 242 31 COMPUTER ORGANIZATION
Tuesday-Thursday H116A
(3.0)
CSC 361 31 SIMULATION
Monday-Wednesday PM007B
(3.0)
CSC 371 31 COMPUTER GRAPHICS
Tuesday-Thursday PM007B
(3.0)
CSC 495 31 TOPICS IN COMPUTER SCIENCE
Monday-Wednesday H 108
(3.0) - P

MUSIC: HISTORY & LITERATURE

TBA
MHL 462 31 MOZART & HIS WORKS
Course taught in Salzburg, Austria. July 18 thru August 10. Contact Dr. Charles Price.
(3.0) OCL - *

8-11
MHL 455 31 HISTORY OF ORCHESTRAL MUSIC
June 24 thru July 12.
(3.0) S 007 - *

9:30-11
MHL 201 31 FORM & STYLE IN THE ARTS
(3.0) S 008 - *I

MUSIC: INSTRUMENTAL

Private Instrumental Music Lessons
Prefixes: BAR, BAS, BSN, CLT, FLU, FRH, SAX, TBA, TPT, TRB, VCL, VLA, VLN

101-402 Minor Level (1)

111-142 Major Level (2)

141-442 Advanced Level (3)

12:30-2:15
AIC 312 31 INSTRUMENTAL CONDUCTING II
June 24 thru July 12.
(2.0) S 001

MUSIC: THEORY & COMPOSITION

8-9:30
MTC 113 31 THEORY OF MUSIC II
(3.0) S 005 - *
MTC 212 31 THEORY OF MUSIC III
(3.0) S 005 - *

8-5
MWJ 436 31 JAZZ STUDIES WORKSHOP
Register using School of Music brochure.
June 24 thru June 28.
(3.0) SAU - $O
MWS 436 31 SYNTHESIZER WORKSHOP: CONTEMP APPLICATNS
Register using School of Music brochure.
June 21 thru June 26.
(3.0) S 007 - $O

9:30-10:30
MTC 115 31 AURAL ACTIVITIES II
(2.0) S 006 - *
MTC 214 31 AURAL ACTIVITIES III
(2.0) S 006 - *

MUSIC: VOCAL & CHORAL

Private Voice Lessons
VOI 101-402 Minor Level(1)
VOI 111-412 Major Level (2)
VOI 151-452 Minor: Musical Theatre (1)
VOI 161-462 Major: Musical Theatre (2)

9-12
VOC 426 31 CHORAL LITERATURE
Permission of Professor.
June 21 thru July 12.
(3.0) S 007 - *

PHILOSOPHY

8-9:30
PHI 101 31 INTRODUCTION TO PHILOSOPHY
(3.0) M 401 - *

9:30-11
PHI 101 32 INTRODUCTION TO PHILOSOPHY
(3.0) M 401 - *
PHI 102 31 INTRODUCTION TO RELIGIOUS STUDIES
(3.0) M 402 - *IW

6-9:30P
PHI 101 33 INTRODUCTION TO PHILOSOPHY
Monday-Wednesday M 401
(3.0) - *
PHI 101 34 INTRODUCTION TO PHILOSOPHY
Tuesday-Thursday M 401
(3.0) - *

PHYSICAL EDUCATION

TBA
PED 370 31 CAMP COUNSELING
Off-campus location.
(3.0) OCL
PED 435 31 PHYSICAL FITNESS SPECIALIST INTERNSHIP
Off-campus location.
(6.0) OCL - P
PED 491 31 INTERNSHIP
Off-campus location.
(6.0) OCL - P

8-9:30
PED 351 31 EVALUATION IN HLTH & PHYS EDUC
(3.0) H 329

9:30-11
PEA 140 31 AEROBIC DANCE-FITNESS
(1.0) H 102 - *
PED 140 31 AQUATIC FUNDAMENTLS/ EMRGNCY WATER SAFETY
(1.0) POOL
PED 245 31 LIFETIME FITNESS CONCEPTS
(3.0) H 332
PED 353 31 ORGANIZ & ADMIN OF PHYS ED, HLTH & ATHLE
(3.0) H 329
PED 456 31 INTRODUCTION TO THE DRIVING TASK
(3.0) H 325

11-12:30
PEA 128 31 TENNIS
(1.0) H 221 - *
PEA 133 31 JAZZ DANCE I
(1.0) H 102 - *
PED 113 31 PHYSICAL CONDITIONING
(0.5) GYM 3
PED 200 31 ELEMENTARY SCHOOL PHYSICAL EDUCATION
(2.0) GYM 4
PED 453 31 MOTOR LEARNING
(3.0) H 332

6-8P
PED 434 31 ORG & MGT OF ADULT FITNSS PROGS CLIN/SEM
(3.0) H 332

PHYSICS

TBA
PHY 490 31 INTRODUCTION TO RESEARCH
Permission of dept. Chairperson.
(1.0) TBA - P
PHY 490 32 INTRODUCTION TO RESEARCH
Permission of dept. Chairperson.
(2.0) TBA - P
PHY 490 33 INTRODUCTION TO RESEARCH
Permission of dept. Chairperson.
(3.0) TBA - P

8-12
PHL 130 31 GENERAL PHYSICS I LAB
(0.0) C 240 - *
PHL 130 32 GENERAL PHYSICS I LAB
(0.0) C 250 - *
PHL 140 31 GENERAL PHYSICS II LAB
(0.0) C 240 - *
PHL 140 32 GENERAL PHYSICS II LAB
(0.0) C 250 - *
PHY 130 31 GENERAL PHYSICS I
June 24 thru July 19.
(4.0) C 232 - *
PHY 140 31 GENERAL PHYSICS II
July 22 thru August 16.
(4.0) C 232 - *

9:30-11
PHY 100 31 ELEMENTS OF PHYSICAL SCIENCE
(3.0) C 260 - *

POLITICAL SCIENCE

TBA
PAD 412 31 INTERNSHIP IN PUBLIC ADMINISTRATION
(3.0) TBA
PAD 412 32 INTERNSHIP IN PUBLIC ADMINISTRATION
(6.0) TBA
PSC 412 31 INTERNSHIP IN POLITICAL SCIENCE
(3.0) TBA
PSC 412 32 INTERNSHIP IN POLITICAL SCIENCE
(6.0) TBA

9:30-11
PSC 100 31 AMERICAN GOVERNMENT & POLITICS
(3.0) J 204 - *W
PSC 100 32 AMERICAN GOVERNMENT & POLITICS
(3.0) J 204 - *
PSC 348 31 AFRICAN CULTURE & POLITICS
(3.0) J 203
PSC 348 32 AFRICAN CULTURE & POLITICS
(3.0) J 203

11-12:30
PSC 340 31 LATIN AMERICAN CULTURE & POLITICS
(3.0) J 204 - FW
PSC 340 32 LATIN AMERICAN CULTURE & POLITICS
(3.0) J 204 - F

6P-10P
PSC 213 31 INTERNATIONAL RELATIONS
Monday-Wednesday J 204
(3.0) - *

PSYCHOLOGY

8-9:30
PSY 464 31 PHYSIOLOGICAL PSYCHOLOGY
(3.0) M 301

9:30-11
PSY 100 31 INTRODUCTION TO PSYCHOLOGY
(3.0) M 302 - *
PSY 257 31 THEORIES OF PERSONALITY
(3.0) M 313

6-9:30P
PSY 100 32 INTRODUCTION TO PSYCHOLOGY
Tuesday-Thursday M 301
(3.0) - *
PSY 254 31 SOCIAL PSYCHOLOGY
Tuesday-Thursday M 302
(3.0) - W
PSY 390 31 PRINCIPLES OF COUNSELING & PSYCHOTHERAPY
Monday-Wednesday M 303
(3.0)

SOCIAL WORK

9:30-11
SWO 201 31 INTRODUCTION TO SOCIAL WELFARE II
(3.0) MC 106

SOCIOLOGY

8-9:30
SOC 200 31 INTRODUCTION TO SOCIOLOGY
(3.0) G 203 - *
SOC 240 31 SOCIOLOGY OF THE FAMILY
(3.0) G 202 - *

9:30-11
SOC 200 32 INTRODUCTION TO SOCIOLOGY
(3.0) F 200 - *

9:30-11:30
SOC 344 31 SOCIOLOGY OF RELIGION
(3.0) G 203

6-9:30P
SOC 349 31 PERSPECTIVES ON MENTAL ILLNESS
Tuesday-Thursday G 202
(3.0) - 1

SOC 369 31 SOCIAL MOVEMENTS
Monday-Wednesday G 101
(3.0)

SPECIAL EDUCATION

8-9:30
EDA 200 31 PRACTICUM
Additional field work required.
(3.0) R 308 - M 12:30-2

EDA 301 31 FIELD EXPERIENCE & SEMINAR: MENTALLY HAN
Additional field work required.
Monday-Wednesday R 308
(3.0)

EDA 302 31 FIELD EXPERIENCE & SEMINAR: PHYSICALLY H
Additional field work required.
Monday-Wednesday R 308
(3.0)

SPEECH COMMUNICATIONS & THEATRE

TBA
SPC 400 31 INTERNSHIP IN SPEECH COMMUNICATION
Approval of Chair required.
(3.0) TBA - P

SPC 400 32 INTERNSHIP IN SPEECH COMMUNICATION
Approval of Chair required.
(6.0) TBA - P

THA 400 31 PROFESSIONAL APPRENT
Approval of Chair required.
(3.0) TBA - *P

8-9:30
SPC 101 31 SPEECH FUNDAMENTALS: INTERPERS COMMUNIC
(3.0) M 418

SPC 216 31 SMALL GROUP COMM
(3.0) M 413 - W

9:30-11
SPC 204 31 DYADIC COMMUNICATION
(3.0) M 413

SPC 208 31 PUBLIC COMMUNICATION
(3.0) M 418

11-12:30
SPC 307 31 NONVERBAL COMM
(3.0) M 413

SPC 415 31 LANGUAGE, THOUGHT & BEHAVIOR
(3.0) M 418 - W

7P-8:45P
THA 499 31 THEATRE SEMINAR
Monday Thru Thursday BG010
(3.0)

WOMEN'S STUDIES

9:30-11
WOS 225 31 WOMEN TODAY- AN INTRO TO WOMEN'S STUDIES
(3.0) C 312 - *IW

Post Session Offerings

Monday, August 5 through Friday, August 23.
Unless noted otherwise, classes meet Monday through Friday.

ACCOUNTING

8-12
ACC 202 41 PRINCIPLES OF ACCOUNTING II
(3.0) M 403

ANTHROPOLOGY

See SOCIOLOGY for Sociology courses

6-9:30P
ANT 102 41 INTRODUCTION TO ANTHROPOLOGY: CULTURAL
Monday Thru Thursday G 202
(3.0) - *W

ART

8-12
ARH 101 41 LEARNING TO LOOK: FINE ARTS, ART
(3.0) F 201 - *

8-12
ART 113 41 INTRODUCTION TO COMPUTER ART
(3.0) F 203

BIOLOGY

Internship in Biological Science (BIO409 Special Problems in Biology (BIO491) are available by arrangement with the Biology department.

8-12
BIO 102 41 HUMANS & THE ENVIRONMENT
(3.0) C 205 - *1

8-12:30
BIO 100 41 BASIC BIOLOGICAL SCIENCE
Lab included.
(3.0) C 317 - *

CHEMISTRY

TBA
CHE 410 41 ADVANCED INDEPENDENT STUDY OR RESEARCH
(3.0) TBA

CHE 450 41 INTERNSHIP IN CHEMISTRY
(3.0) TBA - P

CHE 450 42 INTERNSHIP IN CHEMISTRY
(3.0) TBA - P

CHILDHOOD STUDIES AND READING

8-4P
EDE 481 41 CONSTRUCT ACTIV-ORIENTED TCHG MATERIALS
See Workshop description.
August 5 thru August 9.
(3.0) H 220

EDE 481 42 CONSTRUCT ACTIV-ORIENTED TCHG MATERIALS
See Workshop description.
August 12 thru August 16.
(3.0) H 220

EDE 481 43 CONSTRUCT ACTIV-ORIENTED TCHG MATERIALS
See Workshop description.
August 19 thru August 23.
(3.0) H 220

COUNSELOR, SECONDARY AND PROFESSIONAL EDUCATION

TBA
EDO 498 41 WORKSHOP IN ENVIRONMENTAL EDUCATION
Contact Mr. J. Holingjak for day, time and location.
(3.0) TBA - O

8-12
EDF 100 41 SCHOOL & SOCIETY
(3.0) R 204

EDP 250 41 EDUCATIONAL PSYCHOLOGY
(3.0) R 205

EDP 351 41 EVALUATION & MEASUREMENT
(3.0) R 211 - P

CRIMINAL JUSTICE

TBA
CRJ 490 41 PRACTICUM
(3.0) TBA - MW

CRJ 490 42 PRACTICUM
(3.0) TBA - MW

CRJ 490 43 PRACTICUM
(3.0) TBA - MW

CRJ 490 44 PRACTICUM
(3.0) TBA - MW

CRJ 490 45 PRACTICUM
(3.0) TBA - MW

ECONOMICS

TBA
ECO 411 41 INTERNSHIP
Permission of dept. Chair required.
(3.0) TBA

ENGLISH

TBA
LIT 400 41 LITERATURE SEMINAR
Oxford, England
(3.0) OCL - $W

8-12
FLM 200 41 INTRODUCTION TO FILM
(3.0) M 300 - *W
FLM 300 41 PRIVATE SCREENING
(1.0) M 214 - *
LIT 165 41 INTRODUCTION TO LITERATURE
(3.0) M 201 - *W
LIT 303 41 INTRO TO MULTI-ETHNIC AMERICAN LITERATURE
(3.0) M 212 - W

6-9:45P
LIT 270 41 URBANISM & THE MODERN IMAGINATION
Monday Thru Thursday M 201
(3.0) - *IW

FOREIGN LANGUAGES

6P-9P
ESP 222 41 LATIN-AMER CULT & CIVILIZ (IN ENGLISH)
Monday Thru Thursday M 315
(3.0) - *FI

GEOGRAPHY AND PLANNING

TBA
GEO 415 41 INTERNSHIP IN GEOGRAPHY & PLANNING
Permission of intructor
(3.0) TBA

8-12
GEO 101 41 WORLD GEOGRAPHY
(3.0) J 102 - *

6-10P
GEO 101 42 WORLD GEOGRAPHY
Monday Thru Thursday J 102
(3.0) - *

GEOLOGY AND ASTRONOMY

TBA
ESS 460 41 INTERNSHIP
Must contact Dr. Wiswall
(1.0) TBA
ESS 460 42 INTERNSHIP
Must contact Dr. Wiswall.
(2.0) TBA
ESS 460 43 INTERNSHIP
Must contact Dr. Wiswall.
(3.0) TBA

8-12
ESS 101 41 INTRODUCTION TO GEOLOGY
(3.0) C 050 - *

6-9:30P
ESS 111 41 GENERAL ASTRONOMY
Monday Thru Thursday C 186
(3.0) - *

HEALTH

TBA
HEA 421 41 PUBLIC HEALTH INTERNSHIP
(3.0) OCL
HEA 456 41 ENVIRONMENTAL HEALTH INTERNSHIP
(3.0) OCL

8-4:30
HEA 435 41 HEALTH WORKSHOP
See workshop description.
August 5 thru August 9
AIDS-an update.
(3.0) H 328 - O

9-12
HEA 100 41 DIMENSIONS OF WELLNESS
(3.0) H 326 - *
HEA 104 41 HUMAN SEXUALITY
(3.0) H 327
HEA 303 41 INTRODUCTRY PRINCIPLES HUMAN NUTRITION
(3.0) H 331

HISTORY

Independent Studies in History (HIS490), in History (HIS450) and Field Studies in (HIS460) may be scheduled with the permission of the chairperson.

8-12
HIS 100 41 MAINSTREAMS IN HISTORY
(3.0) M 313 - *

INSTRUCTIONAL MEDIA

TBA
EDM 463 41 FIELD STUDY OF MEDIA PROGRAMS
(3.0) R 306

8-12
EDM 425 41 BASIC PHOTOGRAPHY
(3.0) R302C - *

MANAGEMENT

8-12
MGT 301 41 PRINCIPLES OF MANAGEMENT
(3.0) F 200
MGT 408 41 BUSINESS & SOCIETY
(3.0) F 206 - W

MARKETING

8-12
BLA 201 41 AMERICAN LEGAL SYSTEM
(3.0) E 101
MKT 303 41 CONSUMER BEHAVIOR
(3.0) E 102
MKT 450 41 MARKETING INTERNSHIP
(3.0) TBA

MATHEMATICS AND COMPUTER SCIENCE

8-12
CSC 101 41 INTRODUCTION TO COMPUTERS
(3.0) LB 313 - *
CSC 101 42 INTRODUCTION TO COMPUTERS
(3.0) LB 314 - *
MAT 000 41 FUNDAMENTALS OF ALGEBRA
(3.0) H116B
MAT 103 41 INTRODUCTION TO MATHEMATICS
(3.0) PM007A - *
MAT 105 41 COLLEGE ALGEBRA & TRIGONOMETRY
(3.0) PM007C - *

6-10P
CSC 101 43 INTRODUCTION TO COMPUTERS
Monday Thru Thursday LB 313
(3.0) - *
CSC 101 44 INTRODUCTION TO COMPUTERS
Monday Thru Thursday LB 314
(3.0) - *
CSC 331 41 OPERATING SYSTEMS I
Monday Thru Thursday
PM007B
(3.0)

MUSIC: HISTORY & LITERATURE

TBA
MHL 479 41 SEMINAR IN MUSIC HISTORY I
Oxford, England
August 3 thru August 24.
Contact Dr. Sterling Murray, 436-2284.
(3.0) OCL - $

9-4
MHW 402 41 WORKSHOP IN MUSIC HISTORY
See workshop description.
August 19-August 23.
(3.0) S 008 - O

MUSIC: INSTRUMENTAL

Private Instrumental Music Lessons
Prefixes: BAR, BAS, BSN, CLT, FLU, FRH, SAX, TBA, TPT, TRB, VCL, VLA, VLN

101-402 Minor Level (1)

111-142 Major Level (2)

141-442 Advanced Level (3)

9-4:30P
AIM 429 41 SPECIAL SUBJECTS SEMINAR
Wind instrument repair.
August 5 thru August 8.
Credit plus $55 fee.
(2.0) S 001 - $

NURSING

TBA
NSG 314 41 INTERNSHIP
Approval of Chairperson required
(3.0) OCL - M

PHILOSOPHY

TBA
PHI 201 41 CONTEMPORARY ISSUES
Topic: "Passion, Politics and the Pulpit". Oxford, England; August 3-24. Contact S. Murray, 215-436-2284
(3.0) OCL - $

8-12
PHI 101 41 INTRODUCTION TO PHILOSOPHY
(3.0) M 401 - *

6-9:30P
PHI 101 42 INTRODUCTION TO PHILOSOPHY
Monday Thru Thursday M 401
(3.0) - *

PHYSICAL EDUCATION

TBA
PED 211 41 HOCKEY
At Merestead Sports Camp.
Take with PED213 and PED452.
(0.5) OCL - $

PED 213 41 LACROSSE
At Merestead Sports Camp.
Take with PED211 and PED452.
(0.5) OCL - $

PED 373 41 WILDERNESS ADVENTURE III
Off-campus location.
(2.0) OCL - $

PED 435 41 PHYSICAL FITNESS SPECIALIST INTERNSHIP
Off-campus location.
(3.0) OCL - P

PED 452 41 PRINCIPLES OF COACHING
At Merestead Sports Camp.
Take with PED211 and PED213.
(2.0) OCL - $

PED 491 41 INTERNSHIP
Off-campus location.
(3.0) OCL - P

8-11:30
PED 352 41 APPLIED EXERCISE PHYSIOLOGY
Prerequisite BIO269.
(3.0) H 332 - W

8:30-10:30
PED 142 41 TENNIS
(0.5) GYM 2

10:30-12:30
PED 143 41 GOLF
(0.5) GYM 4

12:30-2:30
PEA 128 41 TENNIS
(1.0) GYM 5 - *

6-8P
PEA 112 41 HORSEMANSHIP
(1.0) H 220 - $*

POLITICAL SCIENCE

TBA
PAD 412 41 INTERNSHIP IN PUBLIC ADMINISTRATION
(3.0) TBA

PSC 412 41 INTERNSHIP IN POLITICAL SCIENCE
(3.0) TBA

8-12
PSC 100 41 AMERICAN GOVERNMENT & POLITICS
(3.0) J 204 - *

6-10P
PAD 376 41 GOVERNMENT BUDGETING
Monday Thru Thursday J 104
(3.0)

PSYCHOLOGY

TBA
PSY 441 41 FIELD EXPERIENCE IN PSYCHOLOGY I
(3.0) TBA

PSY 442 41 FIELD EXPERIENCE IN PSYCHOLOGY II
(3.0) TBA

8-12
PSY 100 41 INTRODUCTION TO PSYCHOLOGY
(3.0) M 301 - *

6-9:30P
PSY 100 42 INTRODUCTION TO PSYCHOLOGY
Monday Thru Thursday M 301
(3.0) - *

SOCIOLOGY

6-9:30P
SOC 200 41 INTRODUCTION TO SOCIOLOGY
Monday Thru Thursday G 203
(3.0) - *

SPECIAL EDUCATION

8-12
EDA 100 41 MAINSTREAMING FOR EXCEPTIONAL STUDENTS
(3.0) R 308

SPEECH COMMUNICATIONS & THEATRE

TBA
SPC 400 41 INTERNSHIP IN SPEECH COMMUNICATION
Approval of Chair required.
(3.0) TBA - P

THA 400 41 PROFESSIONAL APPRENTICESHIP
Approval of Chair required.
(3.0) TBA - *P

WOMEN'S STUDIES

8-12
WOS 225 41 WOMEN TODAY- AN INTRO TO WOMEN'S STUDIES
(3.0) M 303 - *IW

Workshops

Childhood Studies and Reading

Constructing Activity-oriented Teaching Materials

EDE 481 - 3 Credits
August 5 - 9, Sec. 41
August 12 - 16, Sec. 42
August 19 - 23, Sec. 43
8:00 a.m. - 4:00 p m. Off Campus
Fee: Tuition

A workshop experience for students interested in exploring the many facets of making activity-oriented learning materials for the classroom. Dr. Connie Zimmerman will work with creative arts, creative drama, and puppetry for use with children. Professor Scott Dunlap will provide experiences with construction of learning centers and enrichment and reinforcement materials for the academic areas.

For more information, contact Dr. Connie Zimmerman, West Chester University, West Chester, PA 19383 (215) 436-3323 or Professor Scott Dunlap (215) 436-2270.

Counselor, Secondary and Professional Education

Workshop in Environmental Education

EDO 498-41 - 3 Credits
August 5 - 23 Monday through Friday
8:00 a.m. - noon
Fee: Tuition

The summer Enviromental Education workshop is designed to involve college students and in-service teachers in a field-centered learning experience. The workshop includes camping trips and interaction with various educational and government agencies as well as investigations of environmental problems. The workshop will focus on integrating current information about the environment with the school curriculum on the elementary and secondary levels.

For more information contact Professor John Holingjak, West Chester University, West Chester, PA 19383 (215) 436-2791

Workshop in Educational Psychology: Stress Management and Burn-out Avoidance

EDP 498 - 3 Credits
July 1 - August 1
Tuesday through Thursday
12:30 - 3:00 p.m.
Fee: Tuition

This workshop will use group exploration to identify problems encountered in teaching. Particular attention will be devoted to stress management, burn-out avoidance, understanding and reducing negative behavior in the classroom, working successfully with peers and administration, and learning to live happily with oneself.

For more information contact Dr. Wallace Kahn, West Chester University, West Chester, PA 19383 (215) 436-2197.

Foreign Languages

Self-instructional Language Program

3-6 Credits
June - July
Fee: Tuition

Conversational Arabic, Chinese, Dutch, Finnish, Greek, Hebrew, Japanese, or Portuguese. During the 1991 session students may learn conversational languages depending on enrollment and staff at West Chester University. Permission prior to registration is necessary.

For more information contact Professor Ronald L. Gougher, Department of Foreign Languages, West Chester University, West Chester, PA 19383 (215) 436-2700.

Foreign Language Majors Programs

Students from other colleges and universities are welcome to apply for admission to the program. Students may begin any time that can be arranged during June and complete work in July. Time spent and credits earned will vary according to the needs of students Permission prior to registration is required for all programs.

Classical Languages Majors Program

3-6 Credits
June - July
Fee: Tuition

For more information contact Professor John Rosso, Department of Foreign Languages, West Chester University, West Chester, PA 19383 (215) 436-2465.

French Majors Program

3-6 Credits
June - July
Fee: Tuition

For more information contact Professor Roger Brown, Department of Foreign Languages, West Chester University, West Chester, PA 19383 (215) 436-2383.

German Majors Program

3-6 Credits
June - July
Fee: Tuition

For more information contact Professor Ronald L. Gougher, Department of Foreign Languages, West Chester University, West Chester, PA 19383 (215) 436-2700.

Italian Majors Program

3 - 6 Credits
June - July
Fee: Tuition

For more information contact Dr. Erminio Braidotti, Department of Foreign Languages, West Chester University, West Chester, PA 19383 (215) 436-2372.

Spanish Majors Program

3 - 6 Credits
June - July
Fee. Tuition

For more information contact Dr. Erminio Braidotti, Department of Foreign Languages, West Chester University, West Chester, PA 19383 (215) 436-2372.

Health

For more information on any of the health workshops, contact the Department of Health, West Chester University, West Chester, PA 19383 (215) 436-2931.

Health Workshop: Long-term Care

HEA 435-21 - 3 Credits
June 5 - 11 Monday through Friday
8:00 a.m. - 4.30 p.m.
Fee: Tuition

This workshop will focus on the phenomenon of aging and the changing health care needs associated with it. Demographic trends, biology of aging, and health, social, emotional, and financial needs will be discussed. The requirement, purpose and scope of long-term care will be presented. Guest speakers, field trips, group activity, and audio-visual materials will complement lectures and discussions.

For more information contact Dr. Gopal Sankaran, Department of Health, West Chester University, West Chester, PA 19383 (215) 436-2623/ 2931

Health Workshop: Eating and Living

HEA 435-22 - 3 Credits
June 3 - June 21 Monday through Friday
9:00 a.m. - Noon
Fee: Tuition

This is an introductory course on sound nutrition principles and practices. Students will learn how to record their food intake and energy expenditure. Various topics in nutrition will be explored.

For more information contact Dr. Franklin Young, Department of Health, West Chester University, West Chester, PA 19383 (215) 436-6941/ 2931.

Health Workshop: Reproductive Health

HEA 435-31 - 3 Credits
June 27 - July 3 Weekdays only
8:00 a.m. - 4:30 p.m.
Fee: Tuition

This workshop has a multidisciplinary focus in the areas of philosophy, sociology, and health that pertains to reproductive health issues: contraception, abortion, teenage pregnacy, sexually transmitted diseases and AIDS.

For more information contact Dr. Gopal Sankaran, Health Department, West Chester University, West Chester, PA 19383 (215) 436-2623/ 2931.

Health Workshop: The "At Risk" Adolescent - Health Issues

HEA 435-32 - 3 Credits
July 17 - 23 Weekdays only
8:00 a.m. - 4:30 p.m.
Fee: Tuition

This workshop will focus on adolescent risk behaviors and how they affect one's health status. Adolescent pregnancy, sexually transmitted diseases, Human Immunodeficiency Virus infection, and behaviors with health consequences will be discussed. Identification of "at risk" adolescents with various approaches to intervention and health promotion will be emphasized.

For more information contact Dr. Gopal Sankaran, Health Department, West Chester University, West Chester, PA 19383 (215) 436-2623/ 2931.

Health Workshop: Acquired Immune Deficiency Syndrome - An Update

HEA 435-41 - 3 Credits
August 5 - 9
8:00 a.m. - 4:30 p.m.
Fee: Tuition

This workshop will address the psycho-social, economic, religious, ethical and health care issues as they pertain to the epidemic of AIDS. The magnitude and history of the syndrome, modes of transmission, complications, diagnosis, and treatment will be presented. Strategies for the prevention of HIV infection, current research in prevention and treatment, and the increasing problem of HIV infection among women and children will be discussed

For more information contact Dr. Gopal Sankaran, Health Department, West Chester University, West Chester, PA 19383 (215) 436-2623/ 2931

Instructional Media

Workshop in Instructional Media: Travel and Landscape Photography (England)

EDM 498-75 - 3 Credits
EDM 498-76 - 6 Credits
July 1st and 30th, 1991
8:00 a.m. - 4:00 p.m.
July 9 - 21, 1991 - Trip to England
Fee: $2,450.00 plus tuition

This is a working course in travel and landscape photography offered by the Instructional Media Department. The class will meet for one full day, July 1, before the trip to England from July 9 - 21. Students will be assigned projects, determined by the number of credits taken, to be completed during the trip. A one-day, wrap-up session will be held following the trip on July 30.

Prior to registration, contact Professor David Redmond, Department of Instructional Media, West Chester University, West Chester, PA 19383 (215) 436-2245 or (215) 696-5557.

Music

Note: A special registration form is required to register for School of Music Workshops. Please contact the School of Music, West Chester University, West Chester, PA 19383 (215) 436-2739.

Instrumental Music

Wind Instrument Repair Workshop

AIM 429-41 - 2 Credits
August 5 - 8
9:00 a.m. - 4:30 p.m.
Fee: $55.00 plus tuition

The care, maintenance, and repair of brass and woodwind instruments, taught by a practicing repairman. Participants will receive hands-on instruction in instrument terminology, the use of repair tools, and standard and emergency repair procedures.

For more information contact Dr. Edward A. Barrow, School of Music, West Chester University, West Chester, PA 19383 (215) 436-2495.

Music History

From Ballad and Blues to Pop: Popular Music and the American Folk Heritage

MHW 402-41 - 3 Credits
August 19 - 23
9:00 a.m. - 5:00 p.m.
Fee: $95.00 plus tuition

The workshop will investigate the interactions that have shaped American folk traditions, and ways they have become assimilated into the sheet music, phonograph recordings, and performances of our popular culture. Ragtime, blues, jazz, gospel, and country music all drew heavily on folksong, and the folk tradition has continued to fuel important phases of popular music ever since. Anglo-Saxon songs and dances have resurfaced as bluegrass and folk-protest music in the 1940's and 1950's, and Afro-American blues has endured from before jazz to the electric urban blues of the 1950's and 1960's. Both traditions have equally enriched the emergence and evolution of rock ever since.

For more information contact Dr. Charles Price, School of Music, West Chester Univesity, West Chester, PA 19383 (215) 436-3234.

Music Theory and Composition

Jazz Studies Workshop

MWJ 436-31 - 3 Credits
June 24 - 28
8:00 a.m. - 5:00 p.m.
Fee: $110.00 plus tuition

Nationally known jazz artists will offer classes in stage band direction, contemporary improvisation, arranging, and pedagogy of improvisation. The workshop is designed for anyone interested in the study of jazz, both instrumental and vocal, and will accommodate all age groups and all levels of ability. For more information contact Dr. James Sullivan, School of Music, West Chester University, West Chester, PA 19383 (215) 436-2678.

Contemporary Applications of Keyboard Synthesizers

MWS 436-31 - 3 Credits
July 21 - 26
8:00 a.m. - 5:00 p.m.
Fee: $125.00

This hands-on workshop involves digital programming techniques and the use of MIDI networks. Performance and composition will be emphasized. Three levels of instruction are offered. For more information, contact Dr. James Sullivan, School of Music, West Chester University, West Chester, PA 19383 (215) 436-2678.

Physical Education

Practical Relaxation Techniques

PED 498-21 - 1 Credit
June 3 - 7
1:00 - 4:00 p.m.
Fee: Tuition

Practical training in elementary (easy to use and apply) techniques of relaxation. Techniques include stretching.

For more information contact Dr. P. Smith, Department of Physical Education, West Chester University, West Chester, PA 19383 (215) 436-2764.

Data Analysis Using SAS for Exercise and Sports Science

PED 498-22 - 2 Credits
June 10 - 14
1:00 - 4:00 p.m.
Fee: Tuition

The "HOW TO" approach for signing on the mainframe computer, basic editing with XEDIT, and selected SAS operations will be used to learn some elementary techniques for setting up matrices of variables, creating SAS files, writing statistical procedural statements, running SAS programs, and interpreting SAS output. Participants will have the opportunity to analyze data from their respective disciplines using any or all of the following procedures and possibly others: frequency and cross tabulation, analysis of variance and covariance, and regression formats. These techniques have applications in most areas of academic life including grading, research, coaching, business, sports sciences, thesis work and Likert scale evaluation. Some familiarity with computers and statistical techniques is desirable.

For more information contact Dr. Paul K. Smith, Department of Physical Education, West Chester Univesity, West Chester, PA 19383 (215) 436-2764.

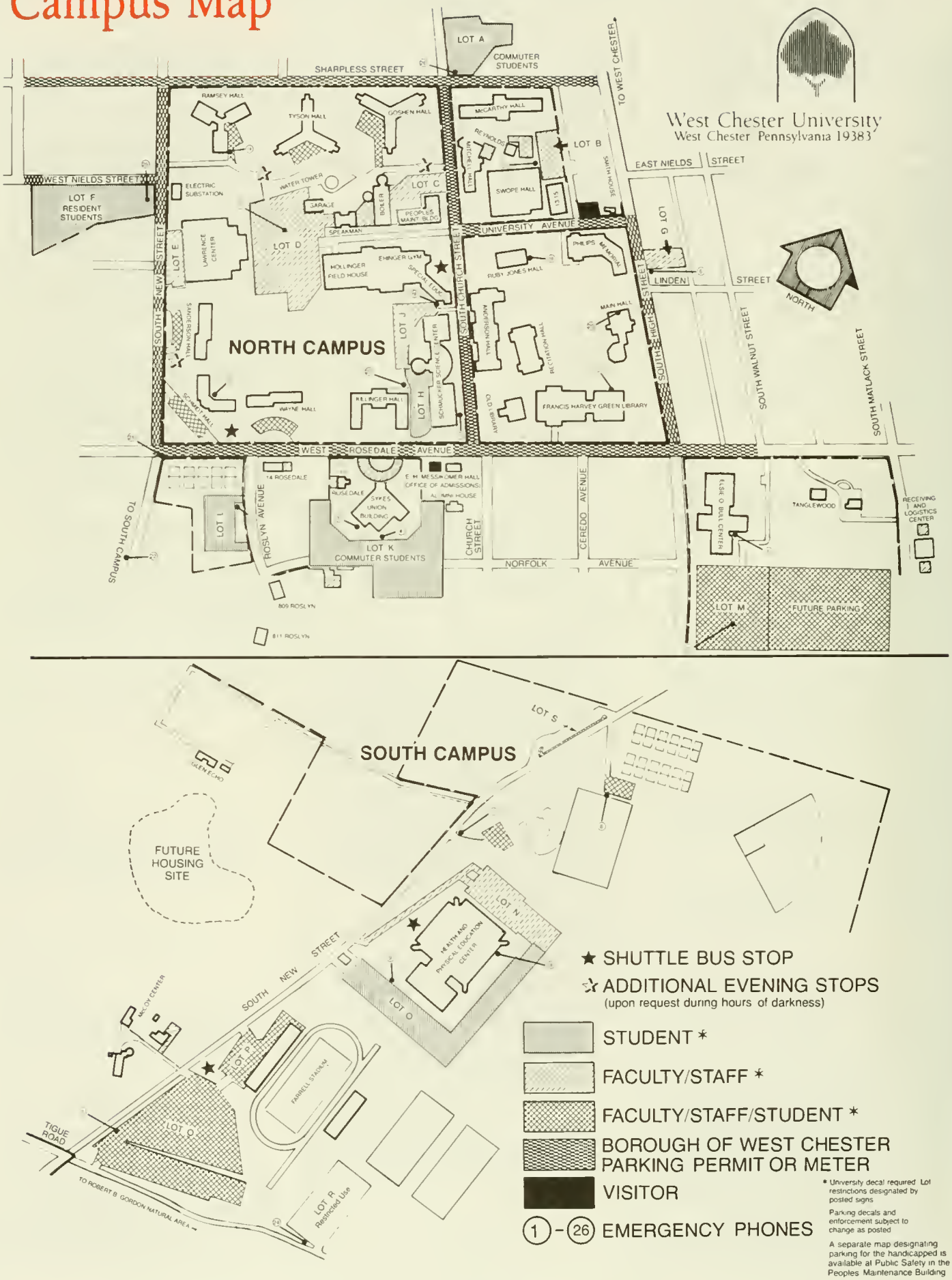
Nondiscrimination/Affirmative Action Policy

West Chester University is committed to providing leadership in extending equal opportunities to all individuals. Accordingly, the University will continue to make every effort to provide these rights to all persons regardless of race, color, religious creed, lifestyle, handicap, ancestry, national origin, union membership, age, or sex. This policy applies to all members of the University community including students, faculty, staff, and administrators. It also applies to all applicants for admission or employment and all participants in University-sponsored activities.

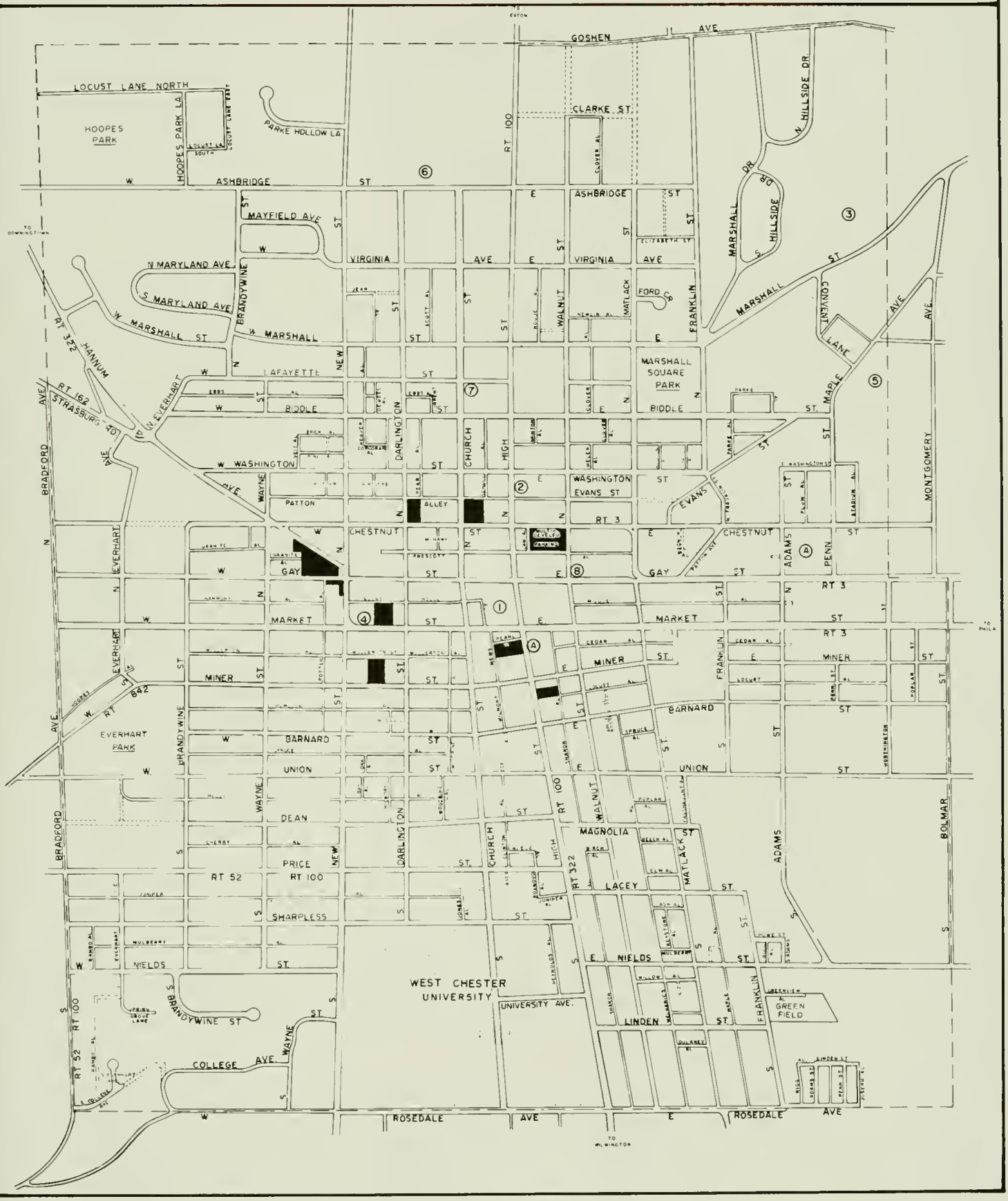
This policy is in compliance with federal and state laws, including Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Educational Amendment of 1972, Section 504 of the Rehabilitation Act of 1973, and Executive Order of the Governor of Pennsylvania.

Any individual having suggestions, problems, complaints, or grievances with regard to equal opportunity or affirmative action is encouraged to contact the director of affirmative action in Lawrence Center, 2nd floor (215) 436-2433.

Campus Map


West Chester University
West Chester Pennsylvania 19383
NORTH CAMPUS
SOUTH CAMPUS
SHARPLESS STREET
LOT A
COMMUTER STUDENTS
TO WEST CHESTER
WEST NIELDS STREET
LOT F
RESIDENT STUDENTS
EAST NIELDS STREET
UNIVERSITY AVENUE
LINDEN STREET
NORTH
SOUTH NEW STREET
SOUTH CHURCH STREET
SOUTH HIGH STREET
SOUTH WALNUT STREET
SOUTH MATLACK STREET
WEST ROSEDALE AVENUE
ROSLYN AVENUE
CHURCH STREET
CEREDO AVENUE
NORFOLK AVENUE
TO SOUTH CAMPUS
LOT K
COMMUTER STUDENTS
LOT M
FUTURE PARKING
FRANCIS HARVEY GREEN LIBRARY
LOT S
FUTURE HOUSING SITE
LOT N
LOT O
LOT P
LOT Q
LOT R
Restricted Use
TIGUE ROAD
TO ROBERT B GORDON NATURAL AREA
★ SHUTTLE BUS STOP
ADDITIONAL EVENING STOPS
(upon request during hours of darkness)
STUDENT *
FACULTY/STAFF *
FACULTY/STAFF/STUDENT *
BOROUGH OF WEST CHESTER PARKING PERMIT OR METER
VISITOR
1 - 26 EMERGENCY PHONES
* University decal required Lot restrictions designated by posted signs
Parking decals and enforcement subject to change as posted
A separate map designating parking for the handicapped is available at Public Safety in the Peoples Maintenance Building

Borough of West Chester



Notes

Departmental Telephone Numbers

College of Arts and Sciences (215) 436-3521

Anthropology/Sociology	436-3500
Art	436-2755
Biology	436-2538
Chemistry	436-2631
English	436-2822
Foreign Languages	436-2700
Geology and Astronomy	436-2727
History	436-2201
Mathematics and Computer Science	436-2440
Philosophy	436-2841
Physics	436-2497
Psychology	436-2945
Speech Communication and Theatre	436-2500

School of Business and Public Affairs 436-2824

Accounting	436-2236
Criminal Justice	436-2647
Economics	436-2134
Geography and Planning	436-2343
Management	436-2304
Marketing	436-2304
Political Science	436-2343
Social Work	436-2527

School of Education 436-2321

Childhood Studies and Reading	436-2944
Counselor/Secondary/ Professional Education	436-2958
Instructional Media	436-2233
Special Education	436-2579

School of Health Sciences 436-2938

Communicative Disorders	436-3401
Health	436-2931
Nursing	436-2219
Physical Education	436-2260

School of Music 436-2739

History/Literature	436-2739
Instrumental Music	436-2739
Keyboard Music	436-2739
Music Education	436-2739
Theory and Composition	436-2739
Vocal and Choral	436-2739

West Chester University